

APPENDIX A



WWW.INLANDWATERSINC.COM

Inland Waters, Inc.
275 Scituate Avenue
Johnston, RI 02919
(401) 943-5302

Spring 2012 CCTV Video Inspection of selected sanitary sewer lines

**Clarke St., Narragansett Ave., Wollcott St.,
Hamilton Ave., Cananicus Ave. & Bay View Drive.**

Infrastructure Technologies Data Generated CCTV Video Inspection Report (PACP Certified)

**Town of Jamestown, WWTP
93 Narragansett Avenue Jamestown, RI 02835**

March 9, 10, 11, 12 & 26, 2012



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Project Name: Town Of Jamestown								
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
1B-11	1B-10	1B-11_1B-10	4/9/2012	Clarke	Vitrified Clay Pipe	6	377	36

Pipe Size: 6

Total Ln.: 377

Inspected Ln.: 36

US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
2-4	2-3	2-4_2-3	4/10/2012	Narragansett Ave	Vitrified Clay Pipe	8	316	63

Pipe Size: 8

Total Ln.: 316

Inspected Ln.: 63

US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
2-14	2-13B	2-14_2-13B	4/10/2012	Wollcott st	Asbestos Cement	12	92	92
2-14B	2-14	2-14B_2-14	4/10/2012	Wollcott st	Asbestos Cement	12	266	266
2-14C	2-14B	2-14C_2-14B	4/10/2012	Wollcott st	Asbestos Cement	12	280	280
2-14D	2-14C	2-14D_2-14C	4/10/2012	Wollcott st	Asbestos Cement	12	184	184
2-14E	2-14D	2-14E_2-14D	4/9/2012	Wollcott st	Asbestos Cement	12	298	298
2-14F	2-14E	2-14F_2-14E	4/9/2012	Wollcott st	Asbestos Cement	12	277	277
2-14G	2-14F	2-14G_2-14F	4/9/2012	Wollcott st	Asbestos Cement	12	289	289
2-23R	2-23S	2-23Q_2-23-R	4/9/2012	Hamilton Ave	Asbestos Cement	12	303	303
2-23R	2-23S	2-23R_2-23S	4/9/2012	Hamilton Ave	Asbestos Cement	12	266	266
2-23S	2-14G	2-23S_2-14G	4/9/2012	Hamilton Ave	Asbestos Cement	12	302	302
2-3	2-2	2-3_2-2	4/10/2012	Narragansett Ave	Vitrified Clay Pipe	12	248	248

Pipe Size: 12

Total Ln.: 2805

Inspected Ln.: 2805

US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
2-12	2-38	2-12_2-39	4/11/2012	Cananicus Ave	Asbestos Cement	14	125	125
2-13	2-12	2-13_2-12	4/10/2012	Cananicus Ave	Asbestos Cement	14	229	229
2-23M	2-23N	2-23M_2-23N	4/9/2012	Hamilton Ave	Asbestos Cement	14	307	307
2-23N	2-23P	2-23N_2-23P	4/9/2012	Hamilton Ave	Asbestos Cement	14	279	279
2-23P	2-23Q	2-23P_2-23Q	4/9/2012	Hamilton Ave	Asbestos Cement	14	298	298
2-32	2-23M	2-32_2-23M	4/9/2012	Hamilton Ave	Asbestos Cement	14	240	240
2-38	2-39	2-38_2-39	4/11/2012	Cananicus Ave	Asbestos Cement	14	167	167

Pipe Size: 14

Total Ln.: 1645

Inspected Ln.: 1645

US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
2-13A	2-13	2-13A_2-13	4/10/2012	Wollcott st	Asbestos Cement	15	257	257
2-13B	2-13A	2-13B_2-13A	4/10/2012	Wollcott st	Asbestos Cement	15	158	158

Pipe Size: 15

Total Ln.: 415

Inspected Ln.: 415

US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
2-39	4-39	2-39_4-39	4/11/2012	Cananicus Ave	Asbestos Cement	16	235	235
4-13A	5-32	4-13A_5-32	4/12/2012	Cananicus Ave	Asbestos Cement	16	138	138
4-37	4-13A	4-37_4-13A	4/11/2012	Cananicus Ave	Asbestos Cement	16	195	195
4-37	4-37A	4-37_4-37A	4/11/2012	Cananicus Ave	Asbestos Cement	16	282	282
4-38	4-37	4-38_4-37	4/11/2012	Cananicus Ave	Asbestos Cement	16	239	239
4-39	4-38	4-39_4-38	4/11/2012	Cananicus Ave	Asbestos Cement	16	245	245
5-1	5-30	5-1_5-30	4/12/2012	Bay View Drive	Asbestos Cement	16	341	341
5-1	5-30	5-1A_5-1	4/12/2012	Bay View Drive	Asbestos Cement	16	121	121
5-1B	5-1A	5-1B_5-1A	4/12/2012	Bay View Drive	Asbestos Cement	16	272	272
5-30	5-30A	5-30_5-30A	4/12/2012	Bay View Drive	Asbestos Cement	16	302	302
5-31	5-1B	5-31_5-1B	4/12/2012	Cananicus Ave	Asbestos Cement	16	241	241
5-32	5-31	5-32_5-31	4/12/2012	Cananicus Ave	Asbestos Cement	16	293	293



Inland Waters Inc
275 Scituate Ave
Johnston Rhode Island 02919
401-943-5302

Project Summary

Pipe Size: 16

Total Ln.: 2904

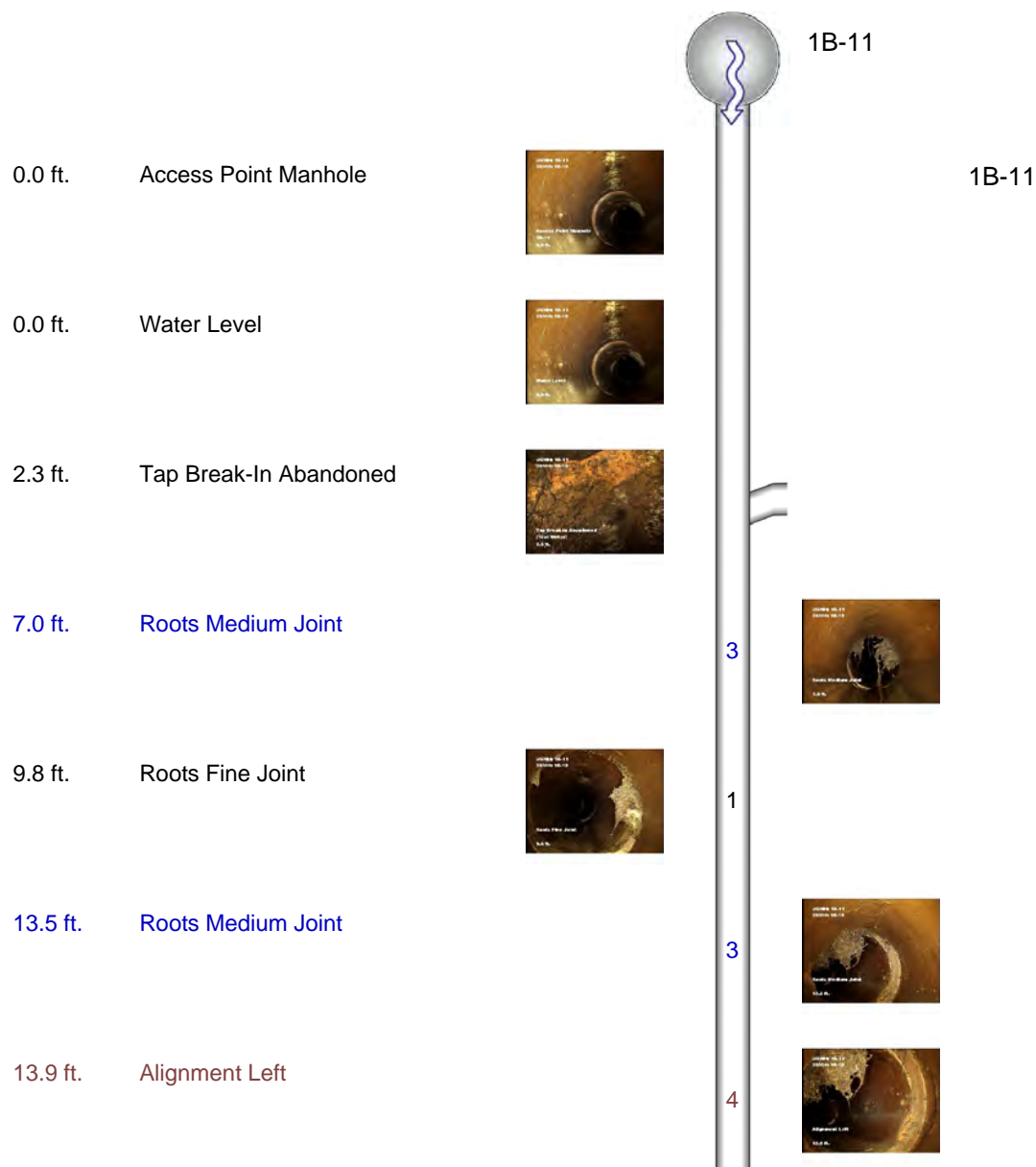
Inspected Ln.: 2904

Project Total Ln.: 8462.0

Project Inspected Ln.: 7888.0

Defect Listing Plot with Images

Pipe Segment Refere... 1B-11_1B-10	City Jamestown	Street Clarke	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 1B-11	Total Length 377	Year Laid	Shape Circular	Location Details	
DS Manhole 1B-10	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint... 2
SPR 4	MPR 13	PO Number		Customer Town of Jamestown	
SPRI 4	MPRI 2.6	Work Order		Purpose Infiltration/Inflow Investigat...	
QSR 4100	QMR 4132				
OPR 17	Surveyed By J_Perry	Direction Downstream	Date 20120409	Media label	
OPRI 2.8	Certificate Number U-510-10733	Pre-Cleaning No Pre-Cleaning	Time 08:26	Weather Dry	
Date Cleaned			End Time 08:36	Additional Info	



Defect Listing Plot with Images

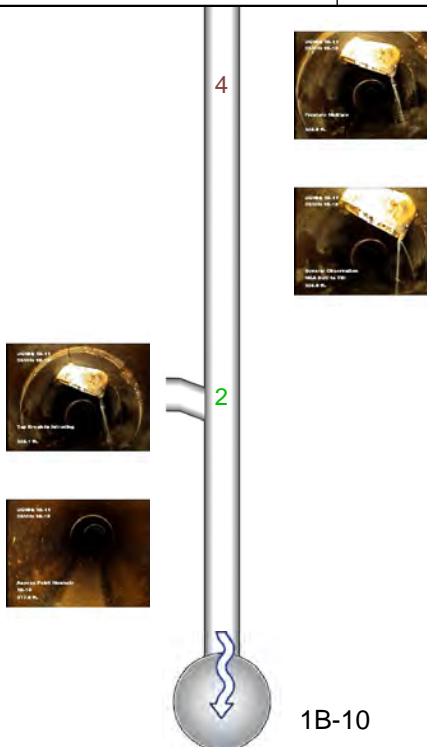
Pipe Segment Refere... 1B-11_1B-10	City Jamestown	Street Clarke	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 1B-11	Total Length 377	Year Laid	Shape Circular	Location Details	
DS Manhole 1B-10	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint... 2
SPR 4	MPR 13	PO Number		Customer Town of Jamestown	
SPRI 4	MPRI 2.6	Work Order		Purpose Infiltration/Inflow Investigat...	
QSR 4100	QMR 4132				
OPR 17	Surveyed By J_Perry	Direction Downstream	Date 20120409	Media label	
OPRI 2.8	Certificate Number U-510-10733	Pre-Cleaning No Pre-Cleaning	Time 08:26	Weather Dry	
Date Cleaned			End Time 08:36	Additional Info	

355.0 ft. Fracture Multiple

355.0 ft. General Observation

355.1 ft. Tap Break-In Intruding

377.0 ft. Access Point Manhole



MSA DUE to TBI

1B-10

1B-10

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Pipe Segment Refere... 1B-11_1B-10	City Jamestown	Street Clarke	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 1B-11	Total Length 377	Year Laid	Shape Circular	Location Details	
DS Manhole 1B-10	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint... 2



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 1B-11



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 2.3 ft. Grade: 0
Condition: Tap Break-In Abandoned
Remarks: N/A



Distance: 7.0 ft. Grade: 3
Condition: Roots Medium Joint
Remarks: N/A

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Pipe Segment Refere... 1B-11_1B-10	City Jamestown	Street Clarke	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 1B-11	Total Length 377	Year Laid	Shape Circular	Location Details	
DS Manhole 1B-10	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint... 2



Distance: 9.8 ft. Grade: 1
Condition: Roots Fine Joint
Remarks: N/A



Distance: 13.5 ft. Grade: 3
Condition: Roots Medium Joint
Remarks: N/A



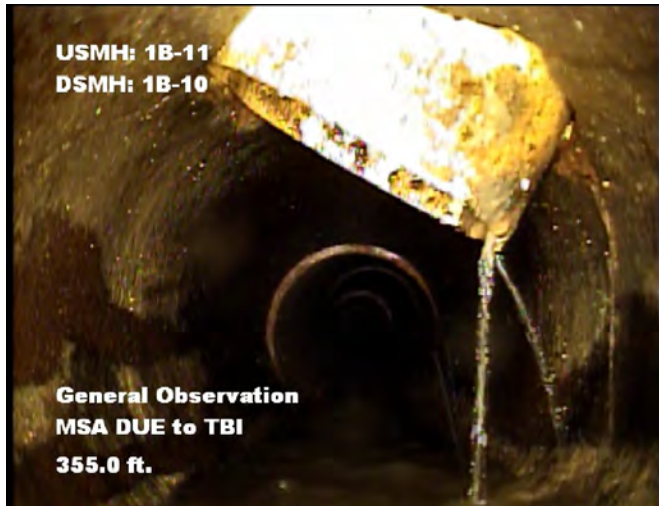
Distance: 13.9 ft. Grade: 4
Condition: Alignment Left
Remarks: N/A



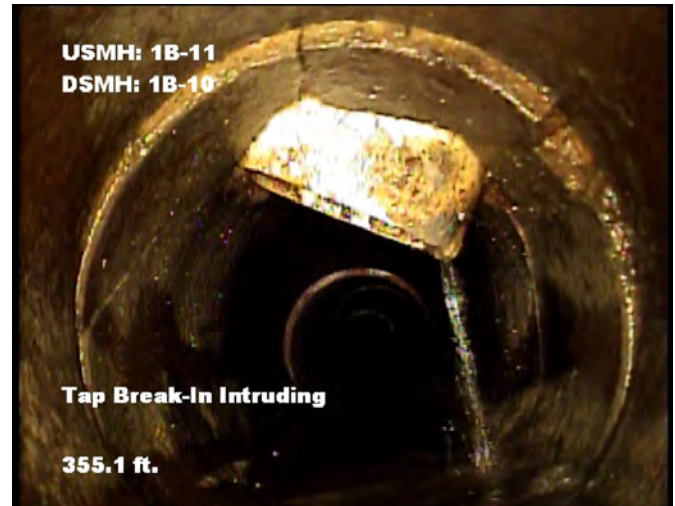
Distance: 355.0 ft. Grade: 4
Condition: Fracture Multiple
Remarks: N/A

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Pipe Segment Refere... 1B-11_1B-10	City Jamestown	Street Clarke	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 1B-11	Total Length 377	Year Laid	Shape Circular	Location Details	
DS Manhole 1B-10	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint... 2



Distance: 355.0 ft. Grade: 0
Condition: General Observation
Remarks: MSA DUE to TBI



Distance: 355.1 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A



Distance: 377.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 1B-10

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-12_2-39	Jamestown	Cananicus Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-12	125		Circular	@ the intersection ...	
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-38	125		14	14	10
SPR 21	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town Of Jamestown	
QSR 1C00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 21	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120411		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Heavy Cleaning	06:44	Dry	
Date Cleaned			End Time	Additional Info	
20120411			06:53		

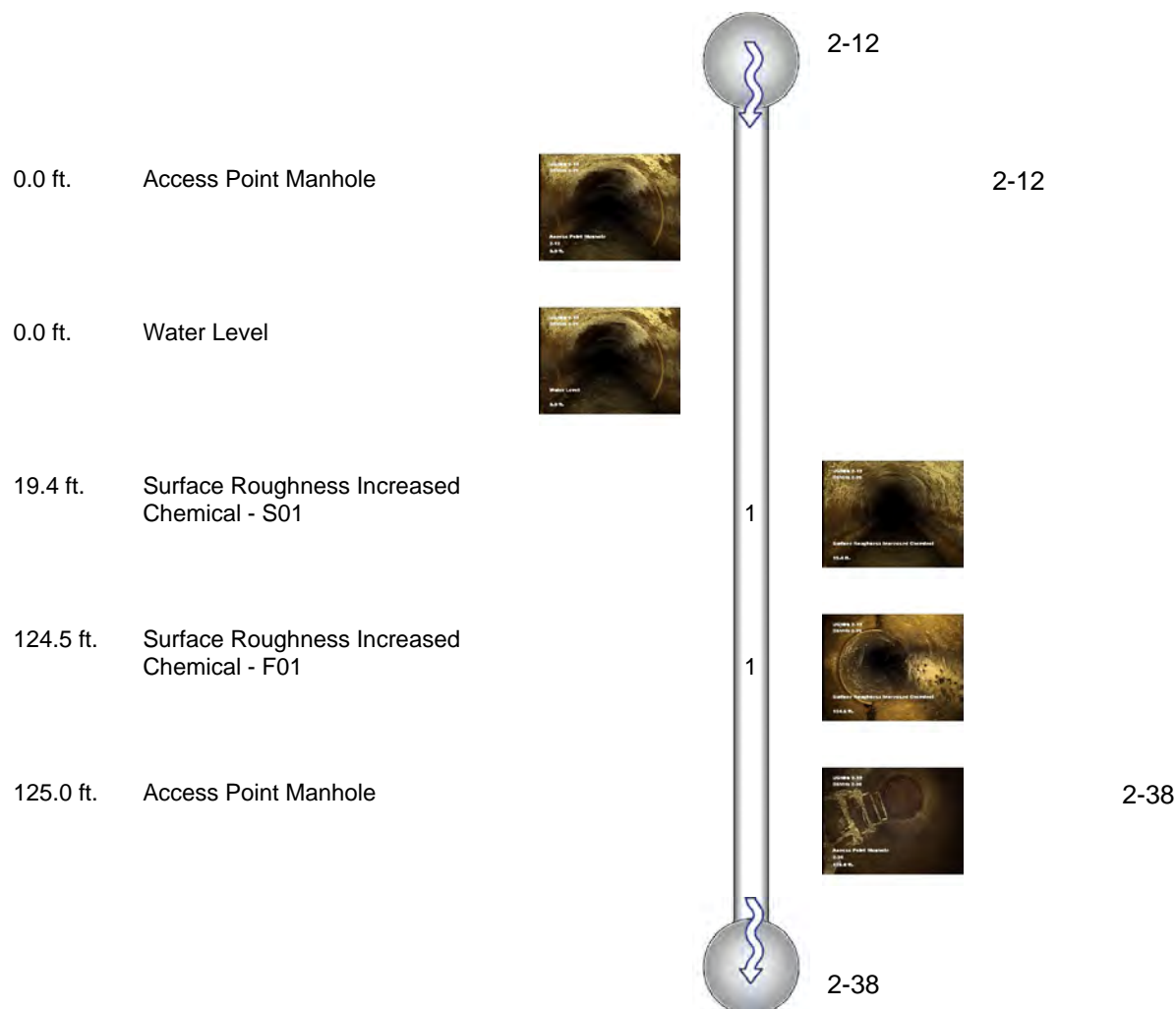
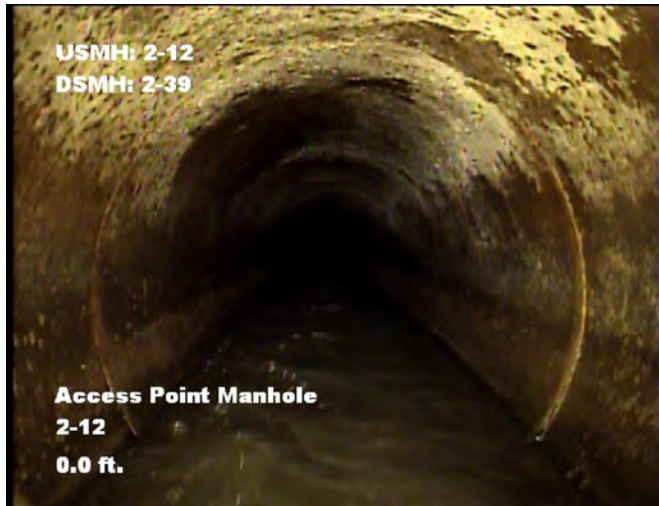


Image Report 4/Page

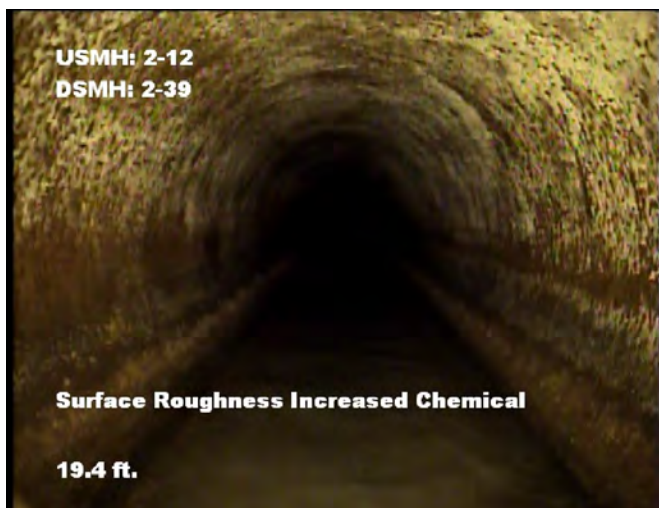
Pipe Segment Refere... 2-12_2-39	City Jamestown	Street Cananicus Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-12	Total Length 125	Year Laid	Shape Circular	Location Details @ the intersection ...	
DS Manhole 2-38	Length surveyed 125	Year Renewed	Height 14	Width 14	Pipe Joint... 10



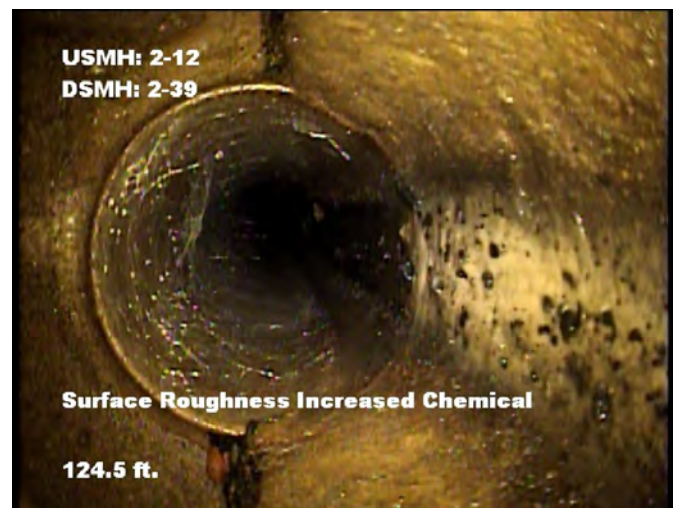
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-12



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 19.4 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A



Distance: 124.5 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-12_2-39	City Jamestown	Street Cananicus Ave	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-12	Total Length 125	Year Laid	Shape Circular		Location Details @ the intersection ...	
DS Manhole 2-38	Length surveyed 125	Year Renewed	Height 14	Width 14	Pipe Joint...	10



Distance: 125.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-38

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-13_2-12	Jamestown	Cananicus Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-13	229		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-12	229		14	14	10
SPR	N/A	MPR	N/A	PO Number	
SPRI	N/A	MPRI	N/A	Customer	
QSR	N/A	QMR	N/A	Town Of Jamestown	
OPR	N/A	OPRI	N/A	Work Order	
OPRI	N/A	OPRI	N/A	Purpose	
				Infiltration/Inflow Investigat...	
	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	12:23	Dry	
	Date Cleaned	End Time	Additional Info		
	20120410	12:34			

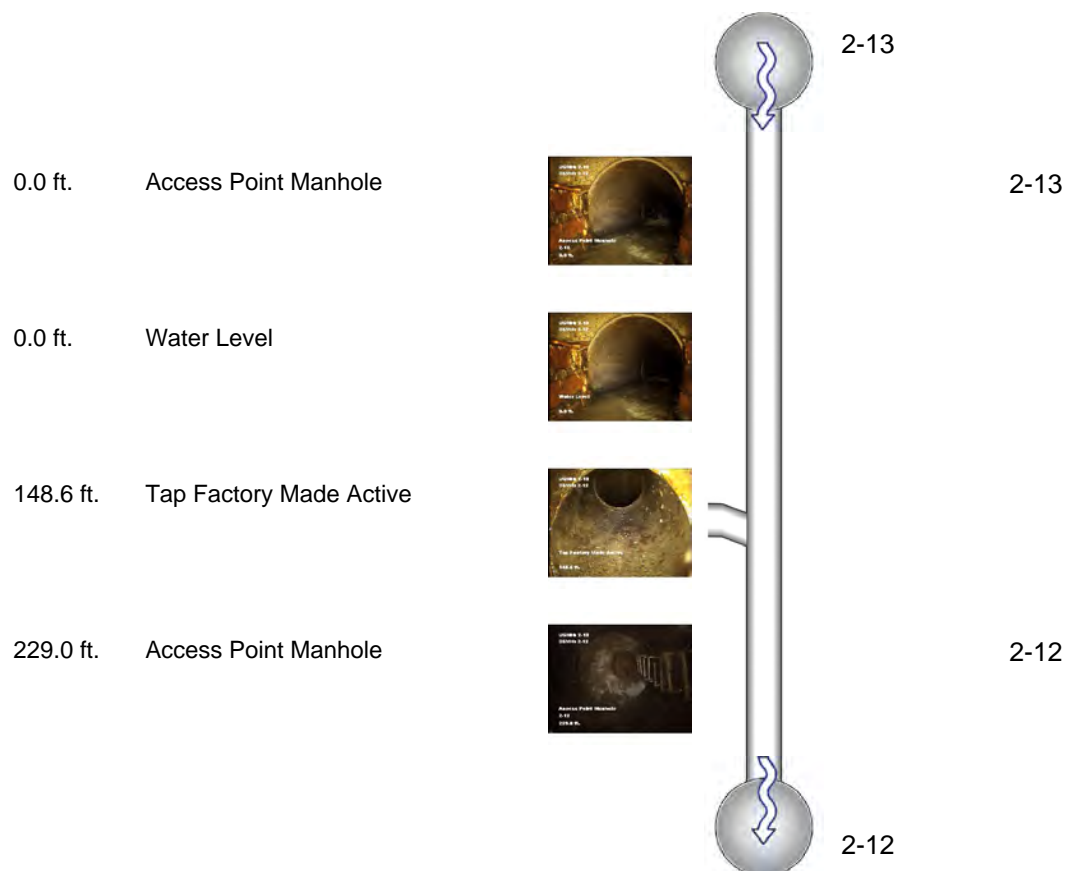


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Pipe Segment Refere... 2-13_2-12	City Jamestown	Street Cananicus Ave	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-13	Total Length 229	Year Laid	Shape Circular		Location Details	
DS Manhole 2-12	Length surveyed 229	Year Renewed	Height 14	Width 14	Pipe Joint... 10	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-13



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 148.6 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 229.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-12

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-13A_2-13	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-13A	257		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-13	257		15	15	10
SPR 35	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town Of Jamestown	
QSR 1F00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 35	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	12:09	Dry	
Date Cleaned			End Time	Additional Info	
20120410			12:19		

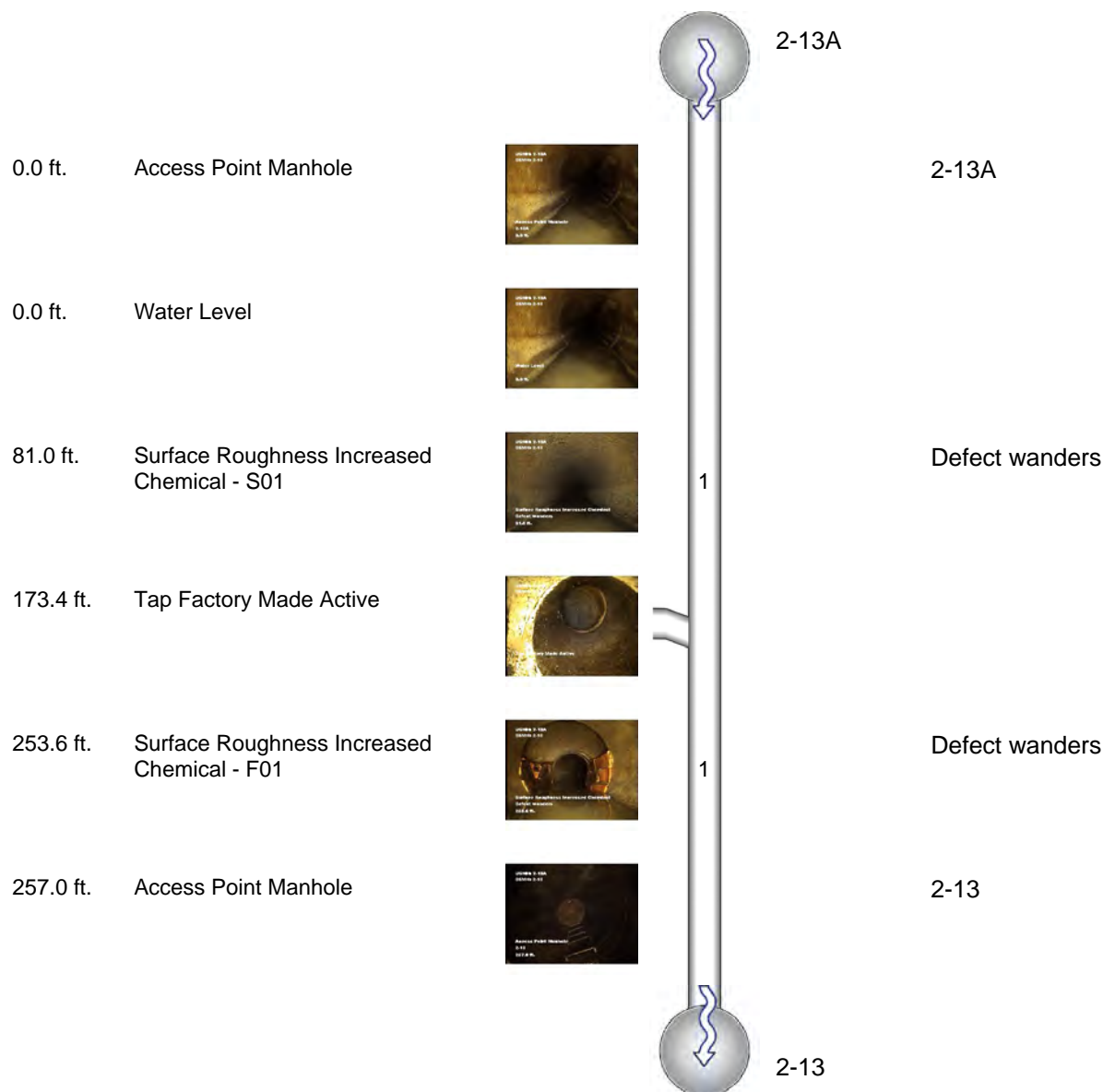
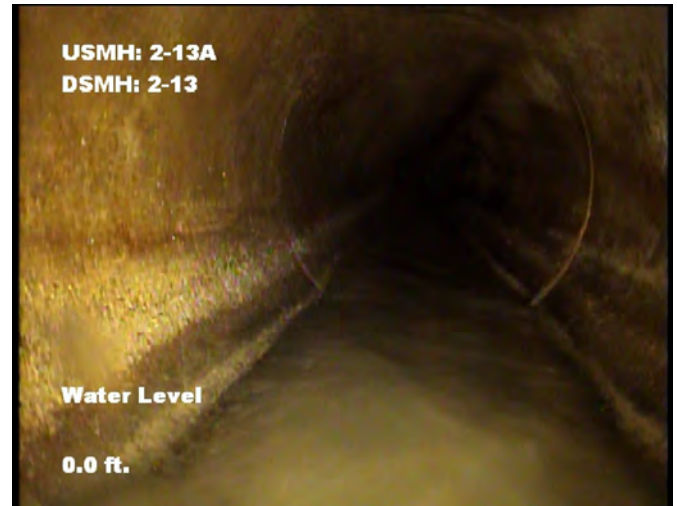


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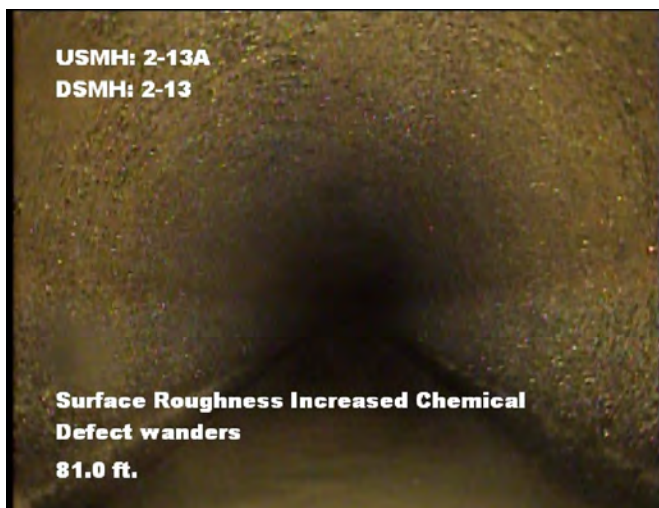
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-13A_2-13	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-13A	257		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-13	257		15	15	10



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-13A



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



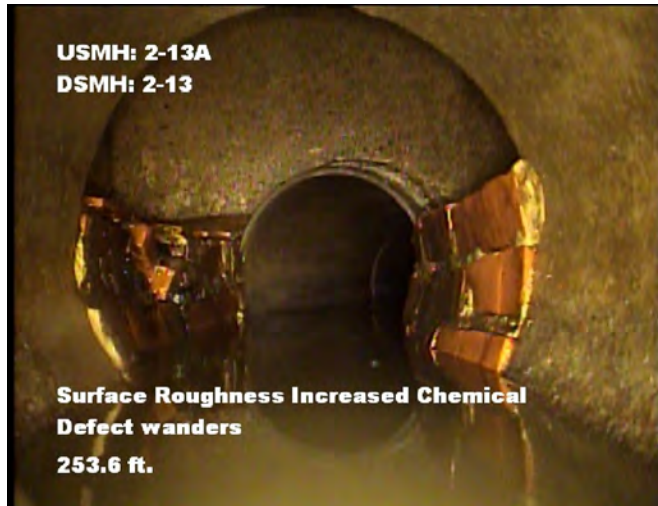
Distance: 81.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders



Distance: 173.4 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A

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Pipe Segment Refere... 2-13A_2-13	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-13A	Total Length 257	Year Laid	Shape Circular		Location Details	
DS Manhole 2-13	Length surveyed 257	Year Renewed	Height 15	Width 15	Pipe Joint... 10	



Distance: 253.6 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders



Distance: 257.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-13

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-13B_2-13A	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-13B	158		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-13A	158		15	15	10
SPR 30	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town Of Jamestown	
QSR 1E00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 30	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	11:31	Dry	
Date Cleaned			End Time	Additional Info	
20120410			11:40		

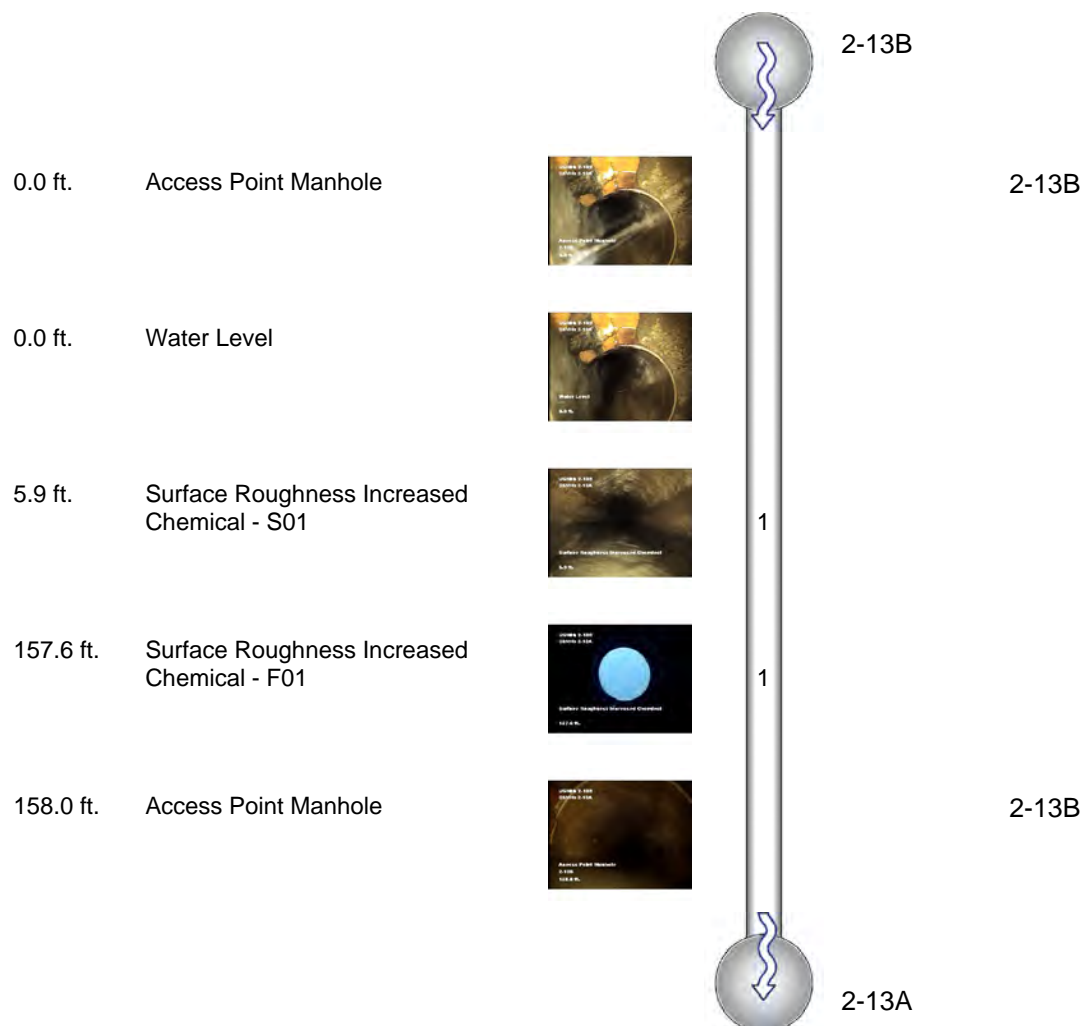


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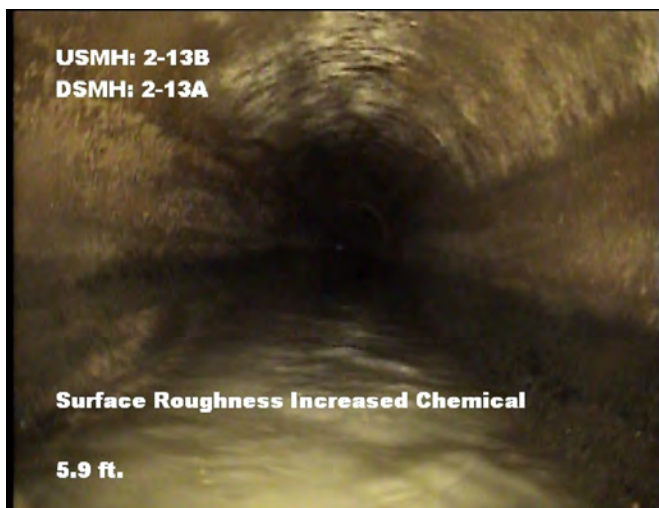
Pipe Segment Refere... 2-13B_2-13A	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-13B	Total Length 158	Year Laid	Shape Circular		Location Details	
DS Manhole 2-13A	Length surveyed 158	Year Renewed	Height 15	Width 15	Pipe Joint... 10	



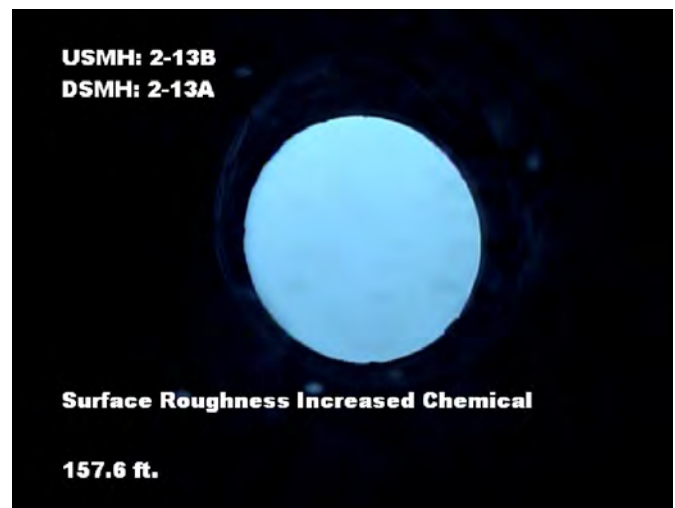
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-13B



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 5.9 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A



Distance: 157.6 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A

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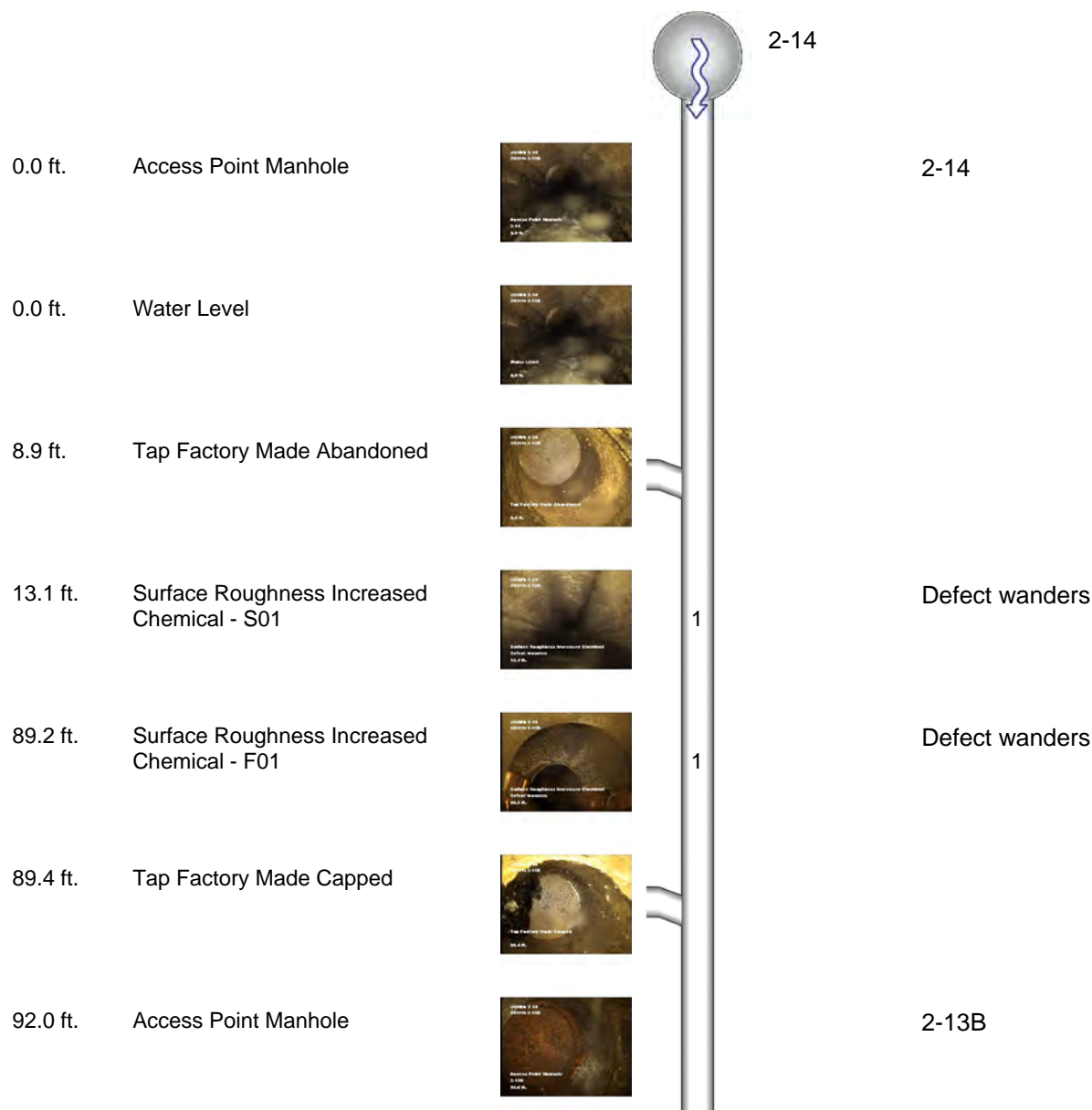
Pipe Segment Refere... 2-13B_2-13A	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-13B	Total Length 158	Year Laid	Shape Circular		Location Details	
DS Manhole 2-13A	Length surveyed 158	Year Renewed	Height 15	Width 15	Pipe Joint... 10	



Distance: 158.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-13B

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14_2-13B	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14	92		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-13B	92		12	12	10
SPR 15	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town Of Jamestown	
QSR 1B00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 15	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	11:17	Dry	
Date Cleaned			End Time	Additional Info	
20120410			11:28		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14_2-13B	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14	92		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-13B	92		12	12	10
SPR 15	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town Of Jamestown	
QSR 1B00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 15	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	11:17	Dry	
Date Cleaned			End Time	Additional Info	
20120410			11:28		



2-13B

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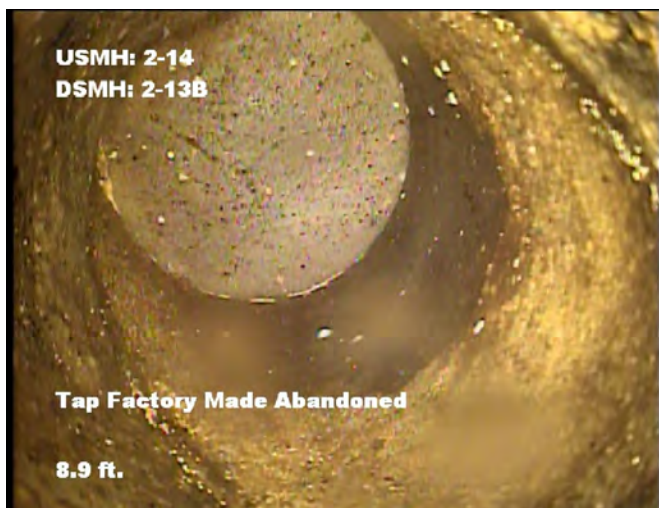
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14_2-13B	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14	92		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-13B	92		12	12	10



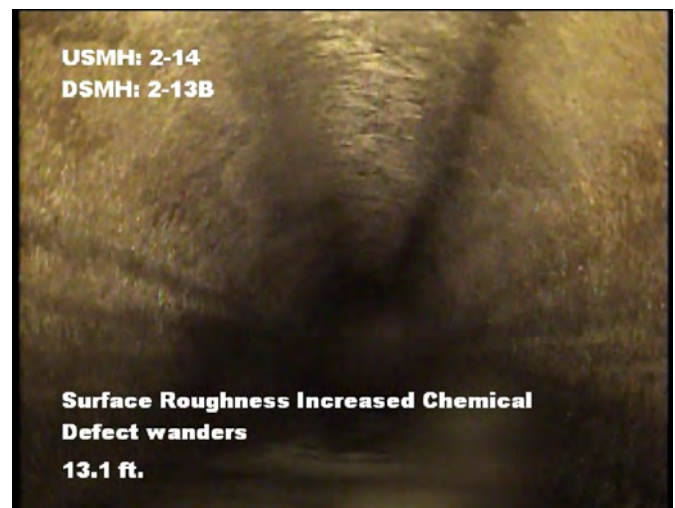
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



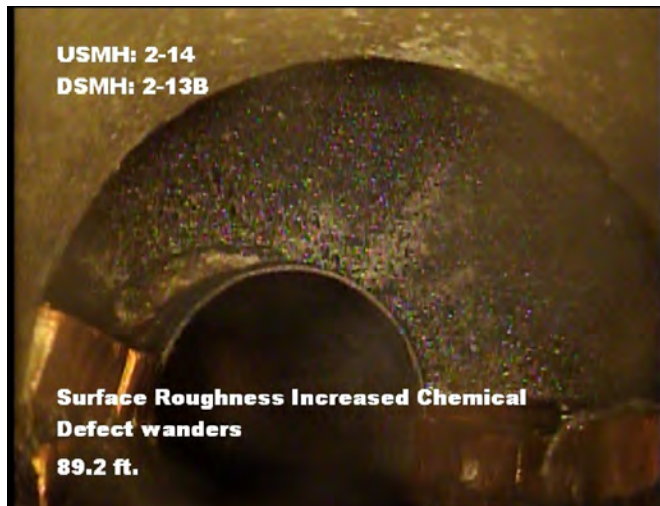
Distance: 8.9 ft. Grade: 0
Condition: Tap Factory Made Abandoned
Remarks: N/A



Distance: 13.1 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Image Report 4/Page

Pipe Segment Refere... 2-14_2-13B	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14	Total Length 92	Year Laid	Shape Circular		Location Details	
DS Manhole 2-13B	Length surveyed 92	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 89.2 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders



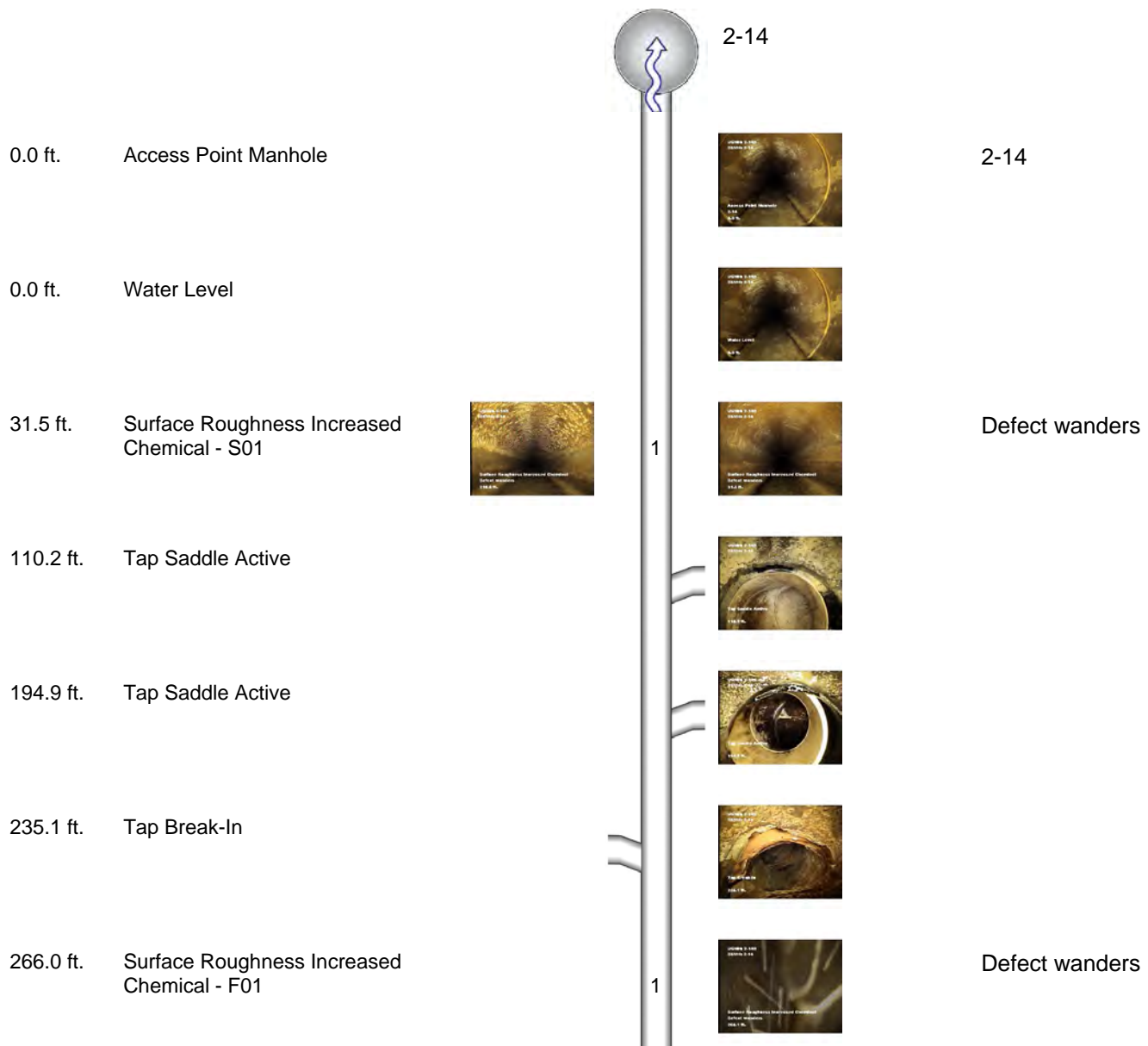
Distance: 89.4 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 92.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-13B

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14B_2-14	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14B	266		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14	266		12	12	10
SPR 47	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town Of Jamestown	
QSR 1H00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 47	Surveyed By	Direction	Date	Media label	
	J_Perry	Upstream	20120410		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	10:14	Dry	
Date Cleaned			End Time	Additional Info	
20120410			10:28		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14B_2-14	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14B	266		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14	266		12	12	10

SPR	47	MPR	N/A	PO Number	Customer
SPRI	1	MPRI	N/A		Town Of Jamestown
QSR	1H00	QMR	N/A	Work Order	Purpose
					Infiltration/Inflow Investigat...
OPR		Surveyed By	Direction	Date	Media label
47		J_Perry	Upstream	20120410	
OPRI		Certificate Number	Pre-Cleaning	Time	Weather
1		U-510-10733	Jetting	10:14	Dry
		Date Cleaned		End Time	Additional Info
		20120410		10:28	

266.0 ft. Access Point Manhole

2-14B

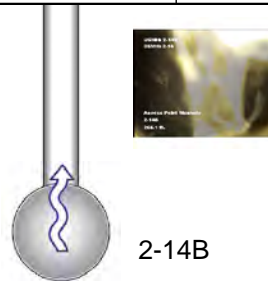
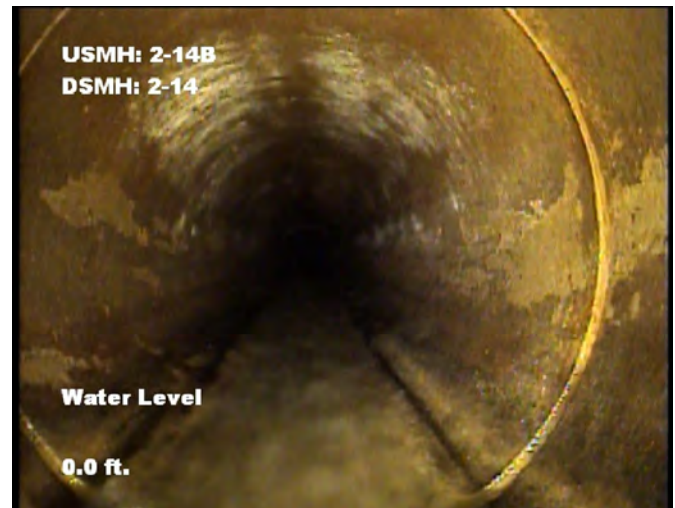


Image Report 4/Page

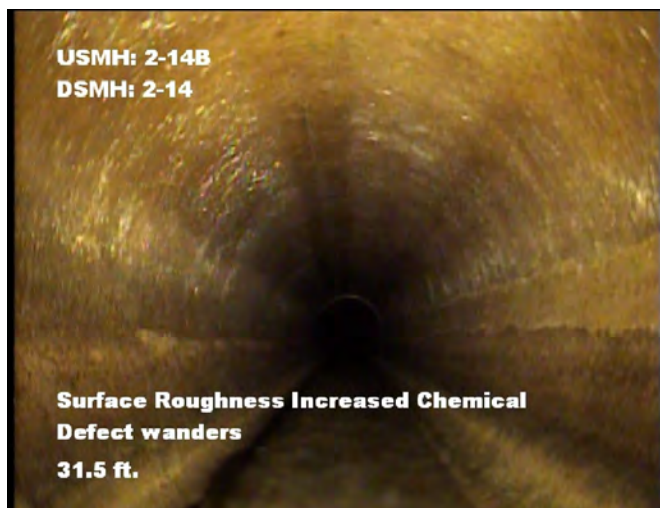
Pipe Segment Refere... 2-14B_2-14	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14B	Total Length 266	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14	Length surveyed 266	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



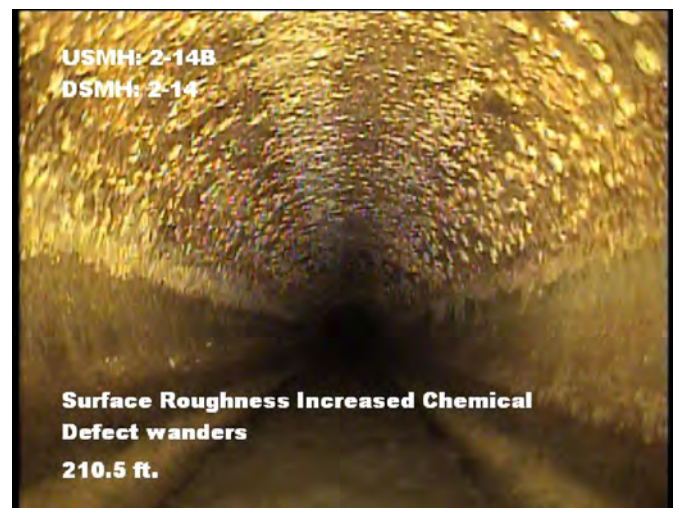
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 31.5 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders



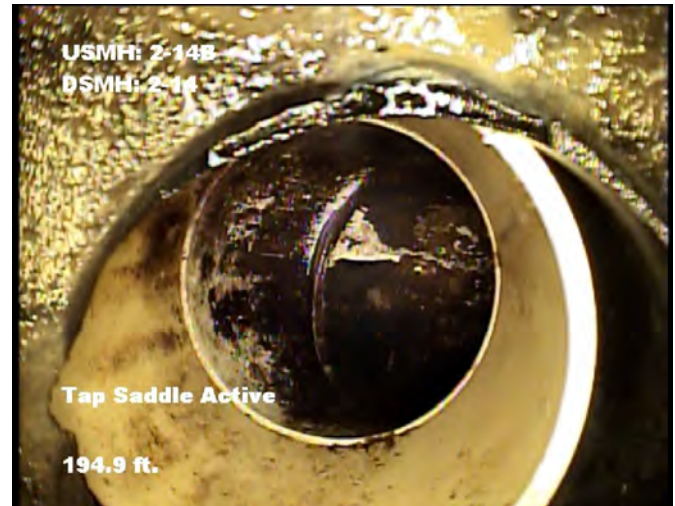
Distance: 31.5 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Image Report 4/Page

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14B_2-14	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14B	266		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14	266		12	12	10



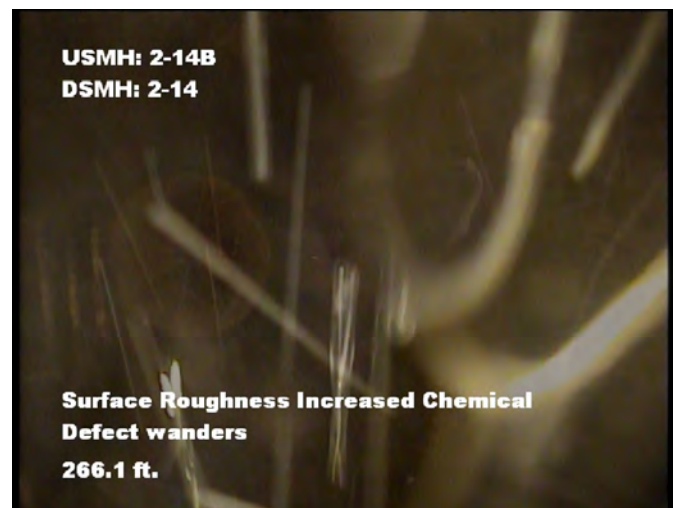
Distance: 110.2 ft. Grade: 0
Condition: Tap Saddle Active
Remarks: N/A



Distance: 194.9 ft. Grade: 0
Condition: Tap Saddle Active
Remarks: N/A



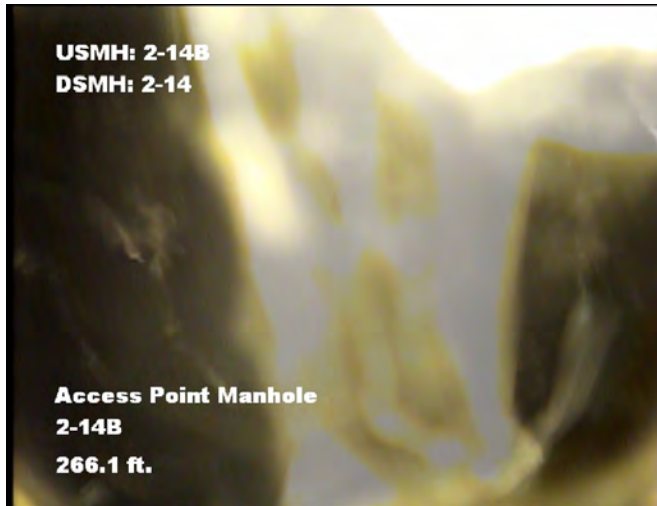
Distance: 235.1 ft. Grade: 0
Condition: Tap Break-In
Remarks: N/A



Distance: 266.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Image Report 4/Page

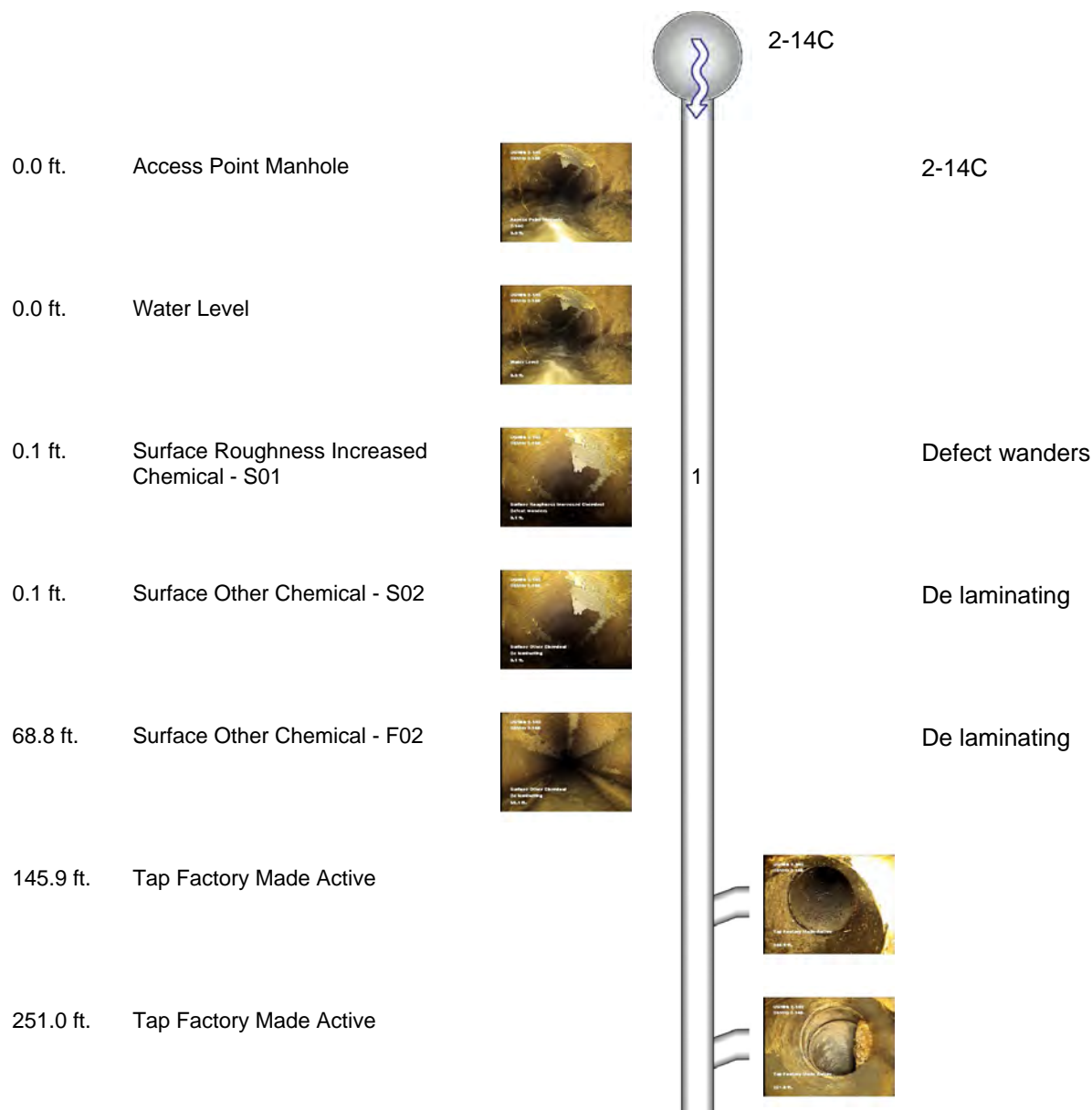
Pipe Segment Refere... 2-14B_2-14	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14B	Total Length 266	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14	Length surveyed 266	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 266.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14B

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14C_2-14B	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14C	280		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14B	280		12	12	10
SPR 56	MPR N/A	PO Number		Customer	
SPRI 0.8	MPRI N/A			Town Of Jamestown	
QSR 1J00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 56	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 0.8	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	09:36	Dry	
Date Cleaned			End Time	Additional Info	
20120410			09:53		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14C_2-14B	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14C	280		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14B	280		12	12	10
SPR 56	MPR N/A	PO Number		Customer	
SPRI 0.8	MPRI N/A			Town Of Jamestown	
QSR 1J00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 56	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 0.8	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	09:36	Dry	
Date Cleaned			End Time	Additional Info	
20120410			09:53		

279.7 ft. Surface Roughness Increased
Chemical - F01



Defect wanders

280.0 ft. Access Point Tee Connection



Outside drop for mh 2-14B



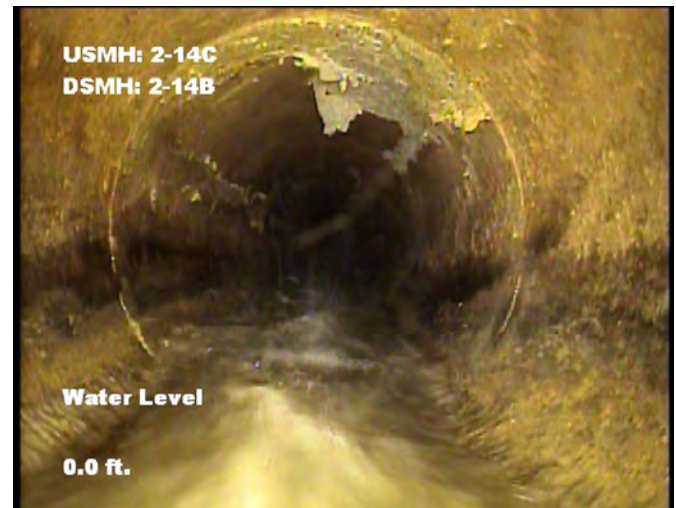
2-14B

Image Report 4/Page

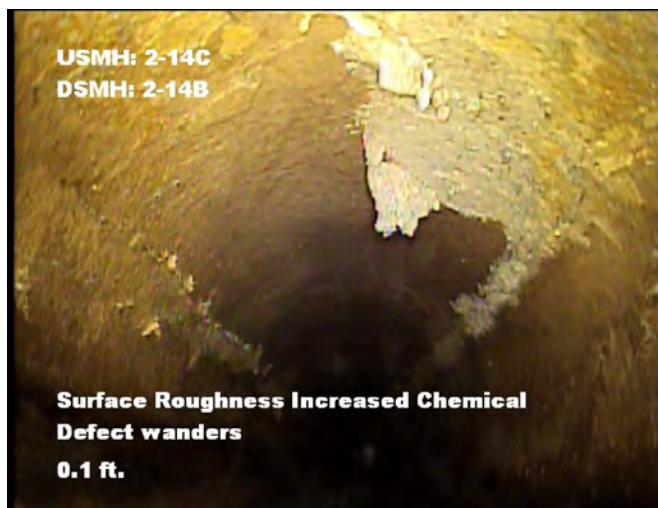
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14C_2-14B	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14C	280		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14B	280		12	12	10



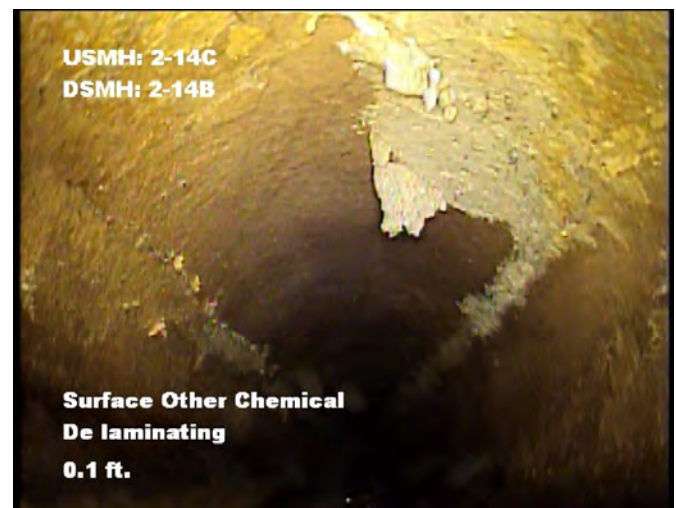
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14C



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 0.1 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders



Distance: 0.1 ft. Grade: 0
Condition: Surface Other Chemical
Remarks: De laminating

Image Report 4/Page

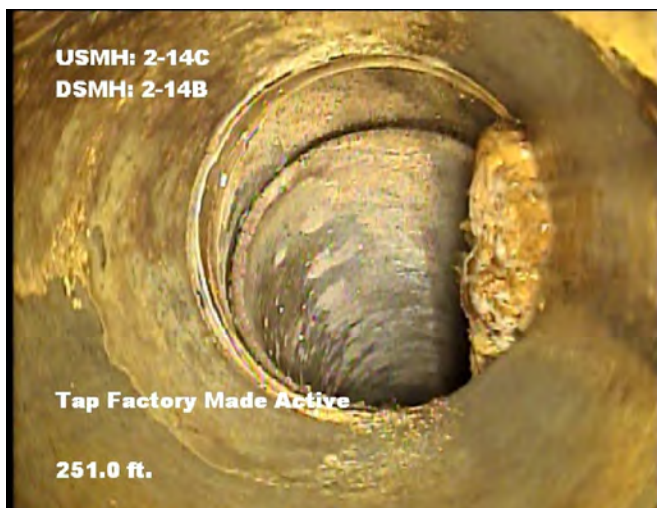
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14C_2-14B	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14C	280		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14B	280		12	12	10



Distance: 68.8 ft. Grade: 0
Condition: Surface Other Chemical
Remarks: De laminating



Distance: 145.9 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 251.0 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 279.7 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Image Report 4/Page

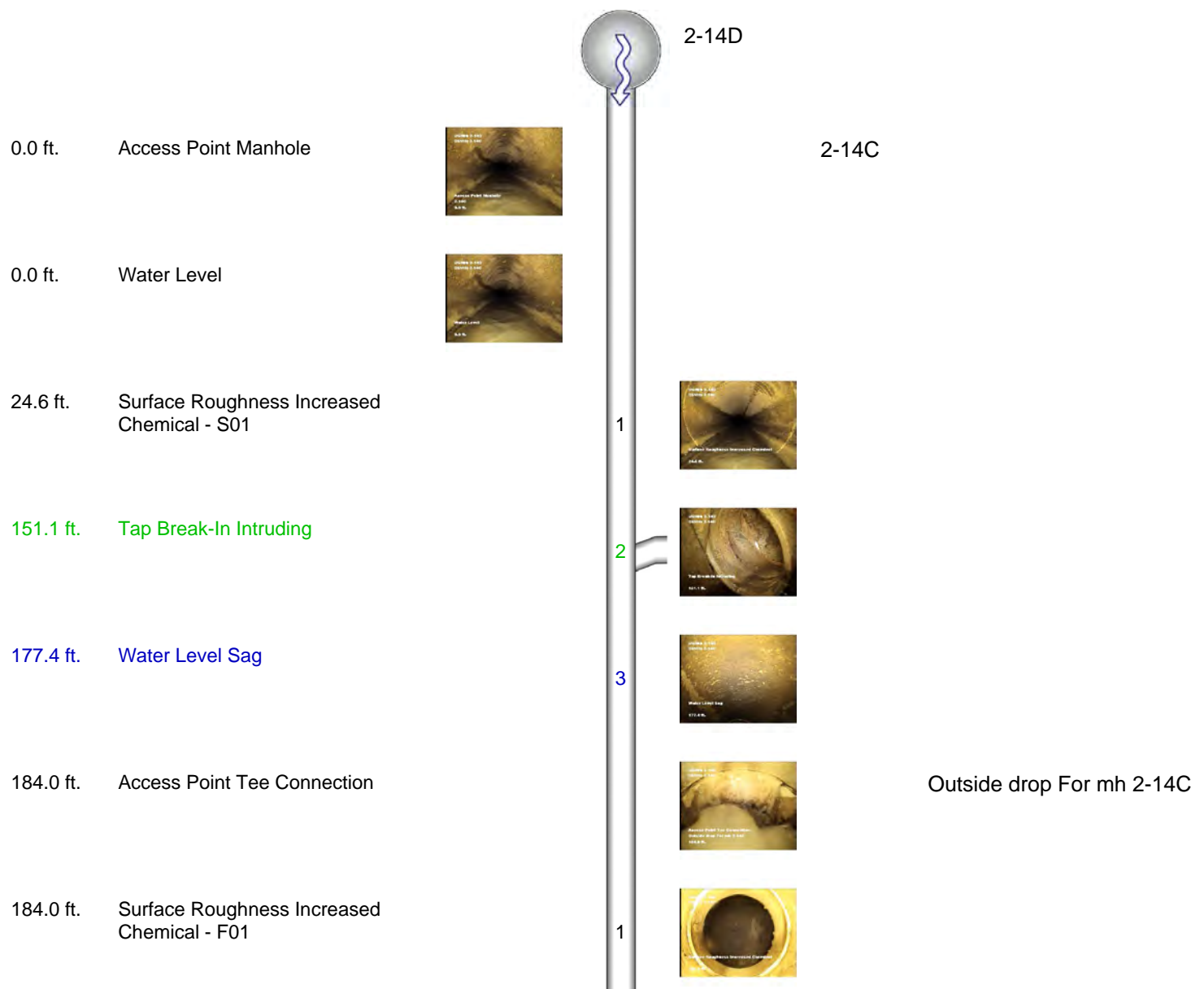
Pipe Segment Refere... 2-14C_2-14B	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14C	Total Length 280	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14B	Length surveyed 280	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 280.0 ft. Grade: 0
Condition: Access Point Tee Connection
Remarks: Outside drop for mh 2-14B

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14D_2-14C	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14D	184		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14C	184		12	12	10
SPR 32	MPR 5	PO Number		Customer	
SPRI 1	MPRI 2.5			Town Of Jamestown	
QSR 1E00	QMR 3121	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 37	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 1.1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	08:42	Dry	
Date Cleaned			End Time	Additional Info	
20120410			08:57		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14D_2-14C	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14D	184		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14C	184		12	12	10

SPR	32	MPR	5	PO Number	Customer
SPRI	1	MPRI	2.5	Work Order	Town Of Jamestown
QSR	1E00	QMR	3121		Purpose
					Infiltration/Inflow Investigat...
OPR		Surveyed By	Direction	Date	Media label
37		J_Perry	Downstream	20120410	
OPRI		Certificate Number	Pre-Cleaning	Time	Weather
1.1		U-510-10733	Jetting	08:42	Dry
Date Cleaned				End Time	Additional Info
20120410				08:57	



2-14C

Image Report 4/Page

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14D_2-14C	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14D	184		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14C	184		12	12	10



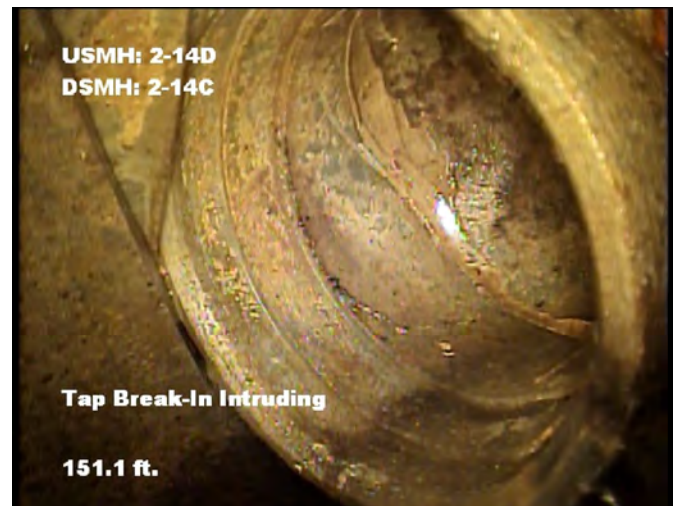
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14C



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



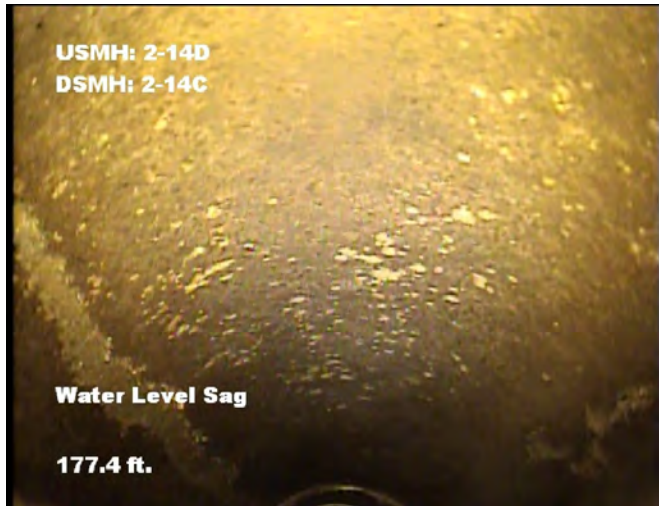
Distance: 24.6 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A



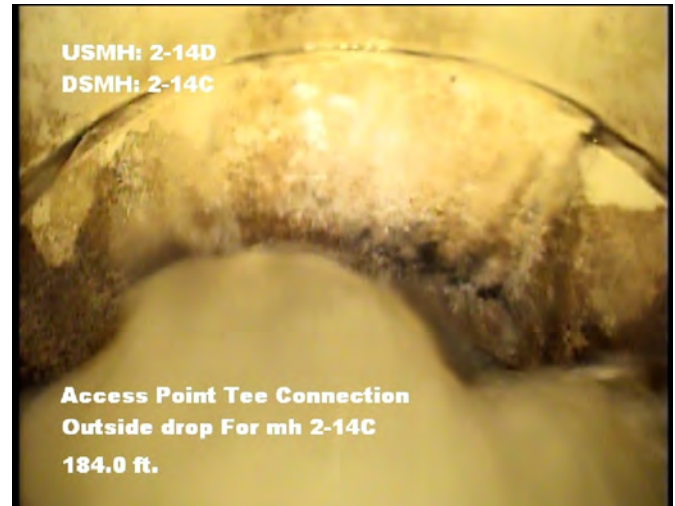
Distance: 151.1 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-14D_2-14C	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14D	Total Length 184	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14C	Length surveyed 184	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 177.4 ft. Grade: 3
Condition: Water Level Sag
Remarks: N/A



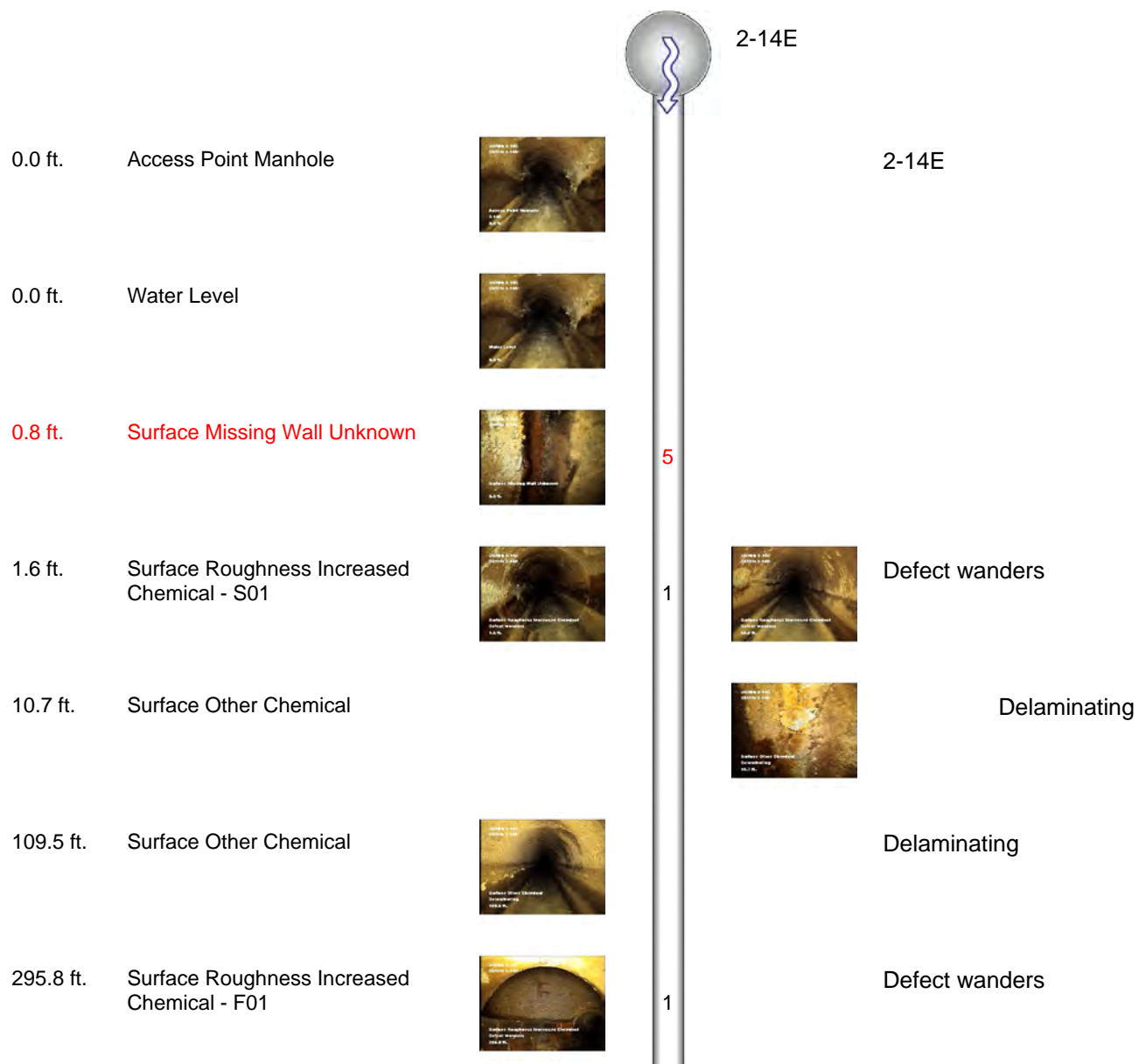
Distance: 184.0 ft. Grade: 0
Condition: Access Point Tee Connection
Remarks: Outside drop For mh 2-14C



Distance: 184.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A

Defect Listing Plot with Images

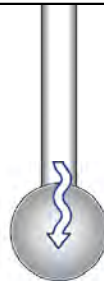
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14E_2-14D	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14E	298		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14D	298		12	12	10
SPR 64	MPR N/A	PO Number		Customer	
SPRI 1.1	MPRI N/A			Town of Jamestown	
QSR 511J	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 64	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120409		
OPRI 1.1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	14:14	Dry	
Date Cleaned			End Time	Additional Info	
20120409			14:36		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14E_2-14D	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14E	298		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14D	298		12	12	10
SPR 64	MPR N/A	PO Number		Customer	
SPRI 1.1	MPRI N/A			Town of Jamestown	
QSR 511J	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 64	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120409		
OPRI 1.1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	14:14	Dry	
Date Cleaned			End Time	Additional Info	
20120409			14:36		

298.0 ft. Access Point Manhole



2-14D

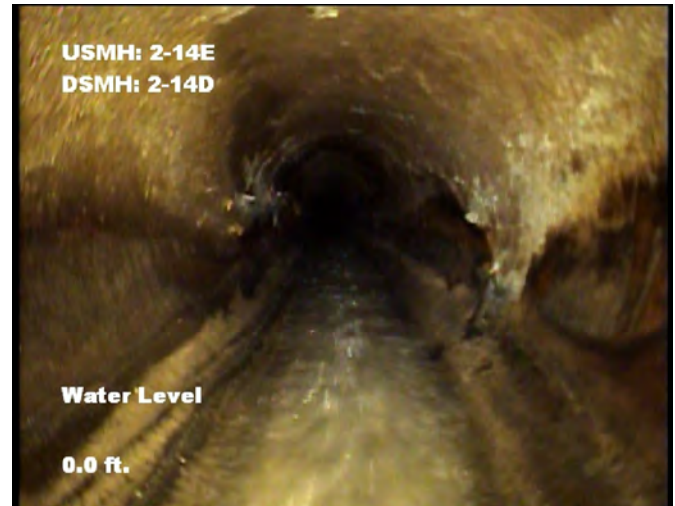
2-14D

Image Report 4/Page

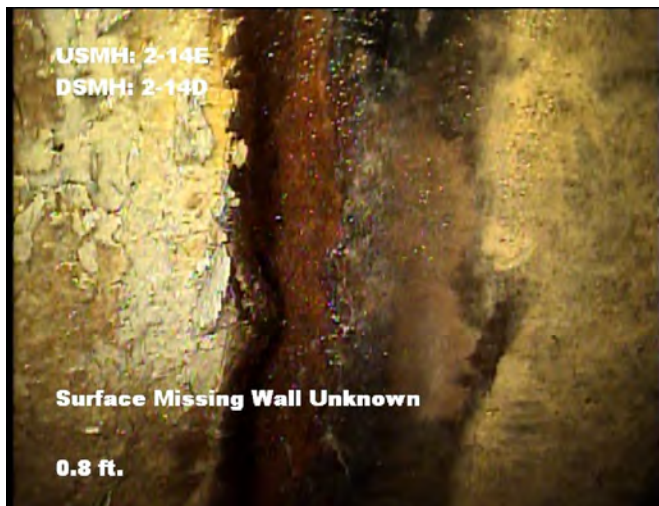
Pipe Segment Refere... 2-14E_2-14D	City Jamestown	Street Wollcott st	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14E	Total Length 298	Year Laid	Shape Circular	Location Details	
DS Manhole 2-14D	Length surveyed 298	Year Renewed	Height 12	Width 12	Pipe Joint... 10



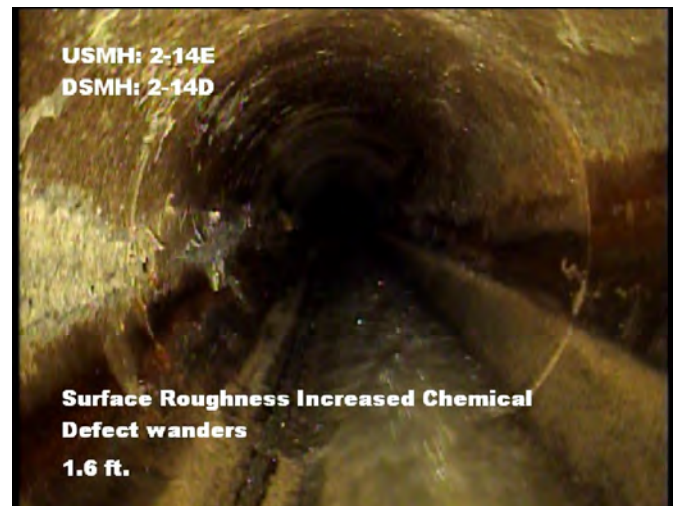
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14E



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



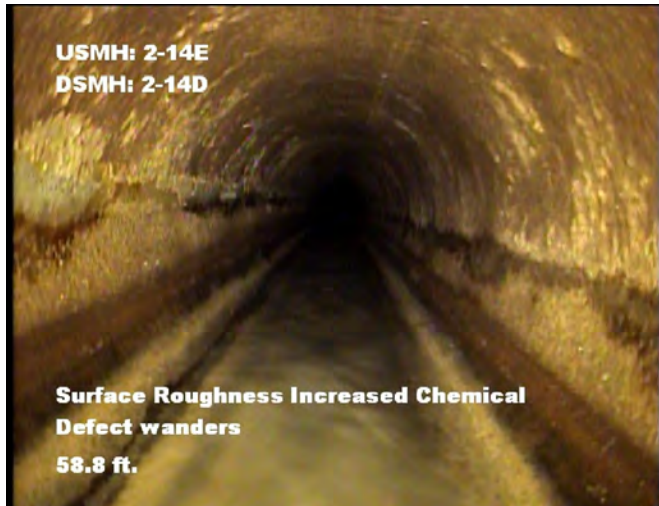
Distance: 0.8 ft. Grade: 5
Condition: Surface Missing Wall Unknown
Remarks: N/A



Distance: 1.6 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Image Report 4/Page

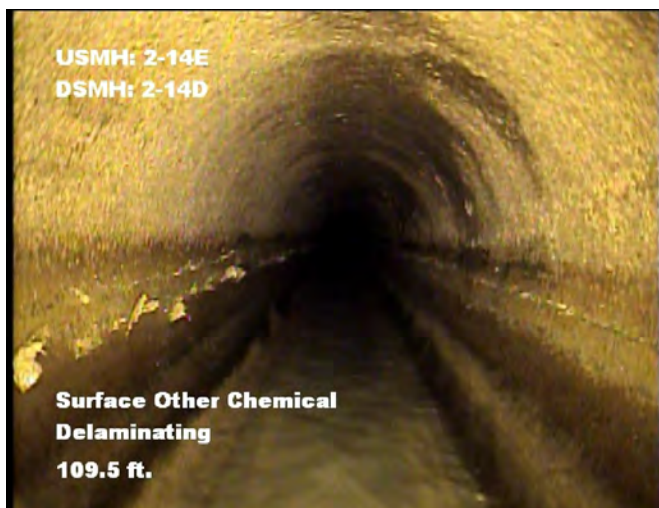
Pipe Segment Refere... 2-14E_2-14D	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14E	Total Length 298	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14D	Length surveyed 298	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



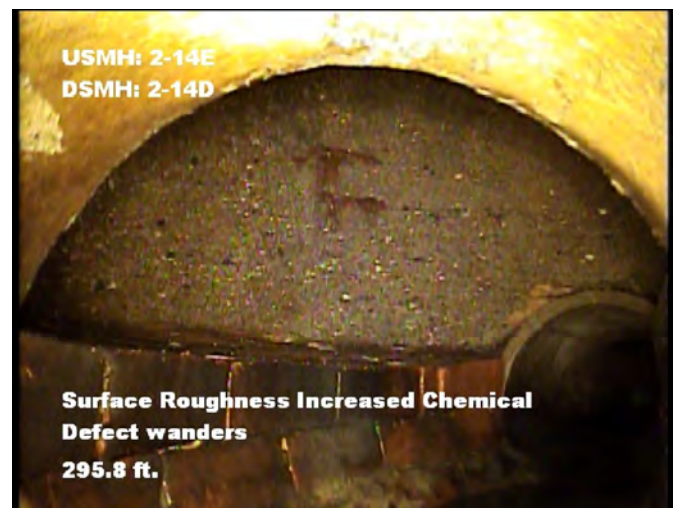
Distance: 1.6 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders



Distance: 10.7 ft. Grade: 0
Condition: Surface Other Chemical
Remarks: Delaminating



Distance: 109.5 ft. Grade: 0
Condition: Surface Other Chemical
Remarks: Delaminating



Distance: 295.8 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Image Report 4/Page

Pipe Segment Refere... 2-14E_2-14D	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14E	Total Length 298	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14D	Length surveyed 298	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 298.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14D

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14F_2-14E	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14F	277		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14E	277		12	12	10

SPR	42	MPR	N/A	PO Number	Customer
SPRI	1.1	MPRI	N/A		Town of Jamestown
QSR	311F	QMR	N/A	Work Order	Purpose
					Infiltration/Inflow Investigat...
OPR		Surveyed By	Direction	Date	Media label
42		J_Perry	Downstream	20120409	
OPRI		Certificate Number	Pre-Cleaning	Time	Weather
1.1		U-510-10733	Jetting	13:28	Dry
Date Cleaned				End Time	Additional Info
20120409				13:55	

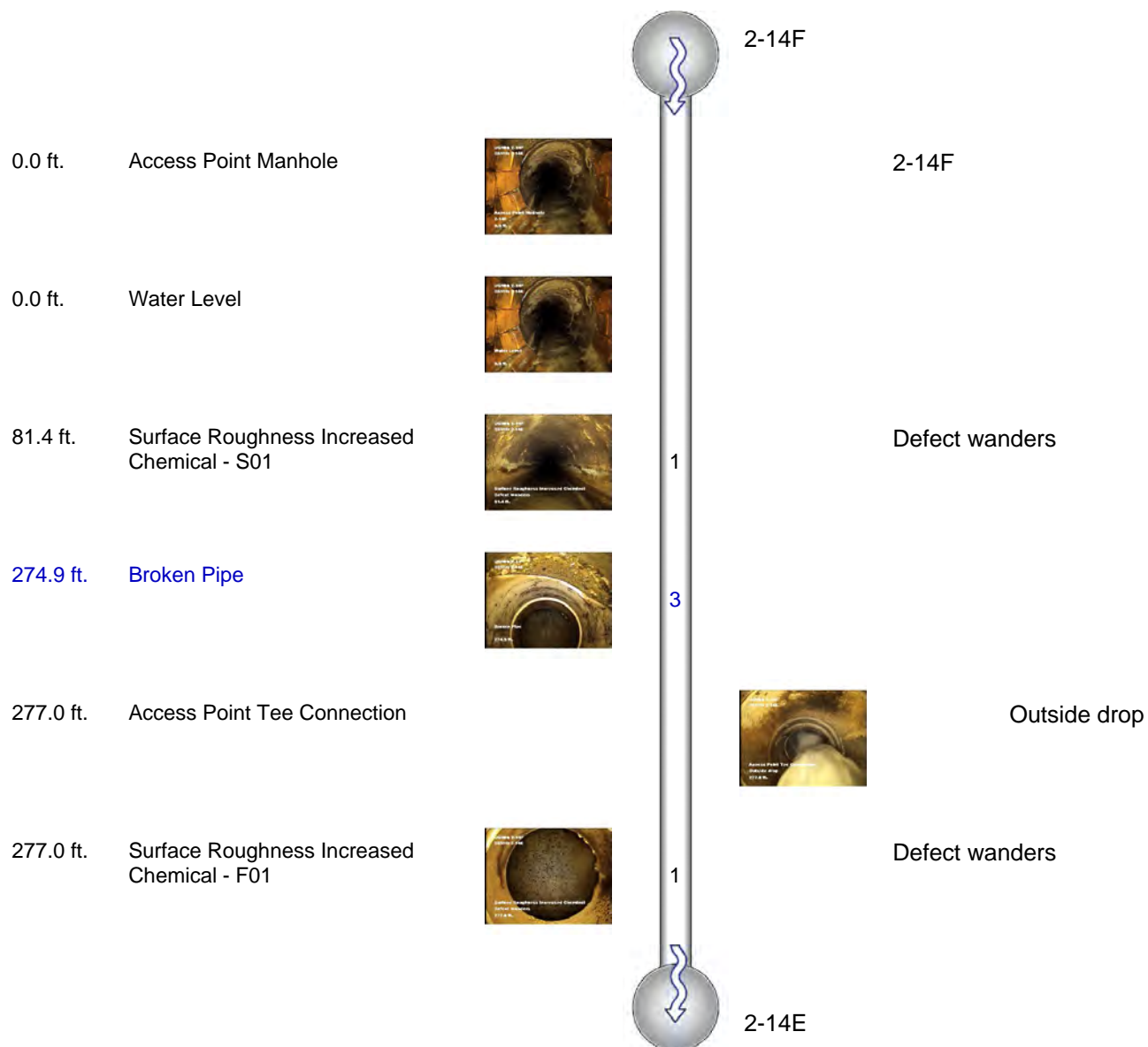


Image Report 4/Page

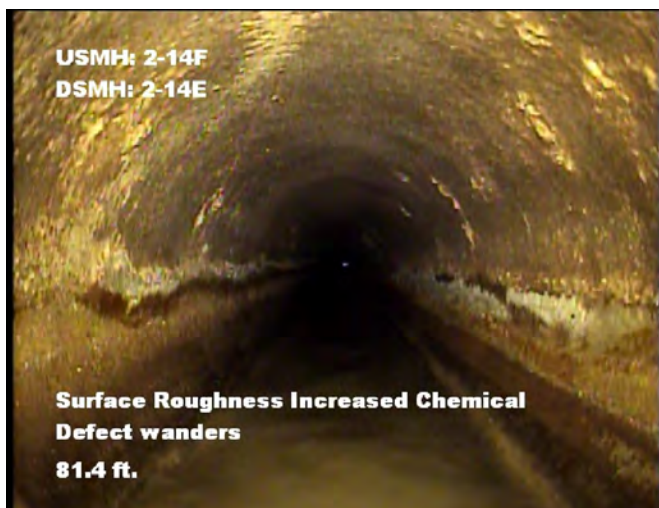
Pipe Segment Refere... 2-14F_2-14E	City Jamestown	Street Wollcott st	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14F	Total Length 277	Year Laid	Shape Circular	Location Details	
DS Manhole 2-14E	Length surveyed 277	Year Renewed	Height 12	Width 12	Pipe Joint... 10



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14F



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



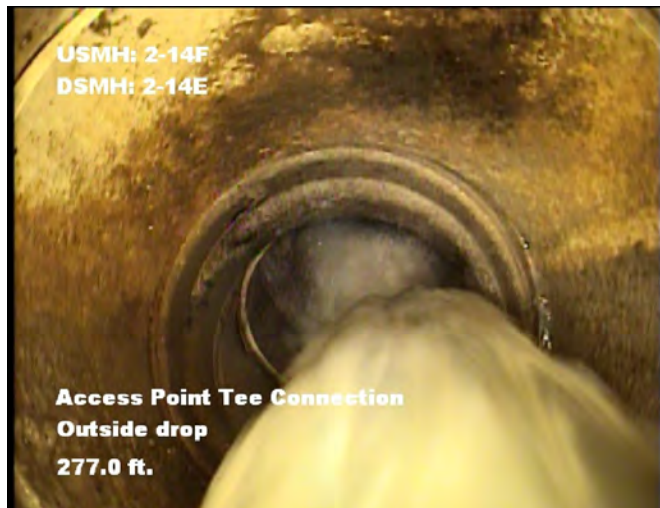
Distance: 81.4 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders



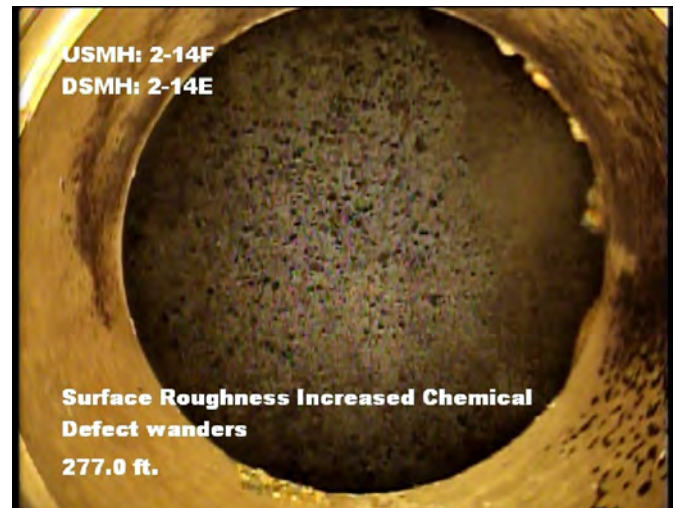
Distance: 274.9 ft. Grade: 3
Condition: Broken Pipe
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-14F_2-14E	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14F	Total Length 277	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14E	Length surveyed 277	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 277.0 ft. Grade: 0
Condition: Access Point Tee Connection
Remarks: Outside drop



Distance: 277.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-14G_2-14F	Jamestown	Wollcott st	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-14G	289		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14F	289		12	12	10
SPR 49	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town of Jamestown	
QSR 1H00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 49	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120409		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	13:59	Dry	
Date Cleaned			End Time	Additional Info	
20120409			14:00		

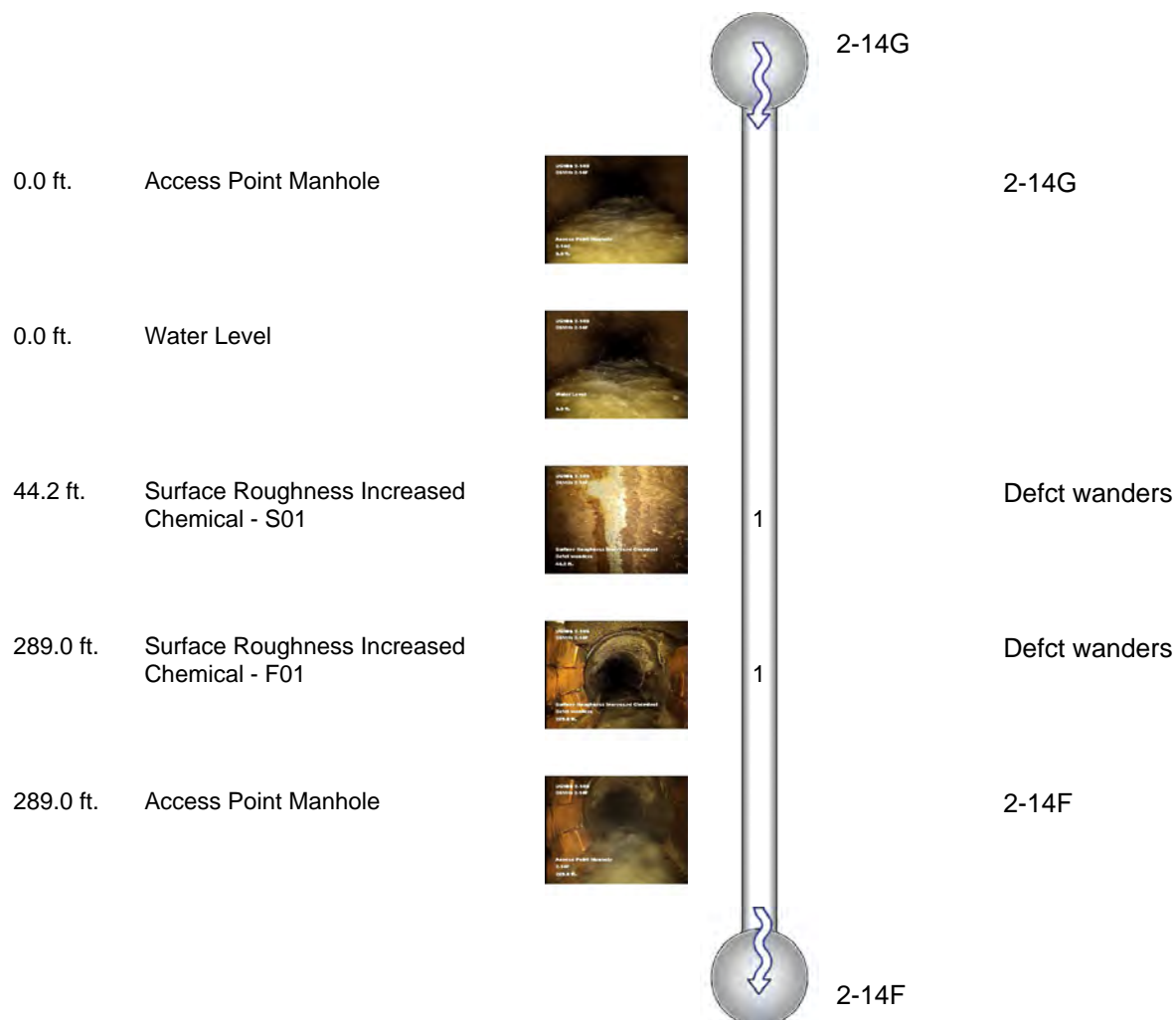
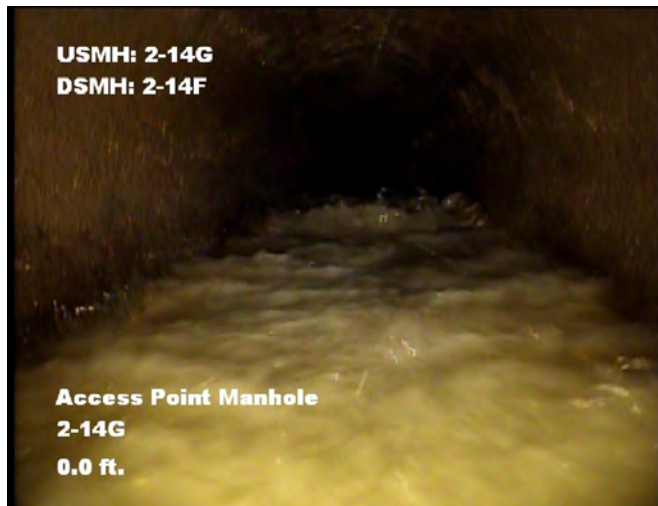
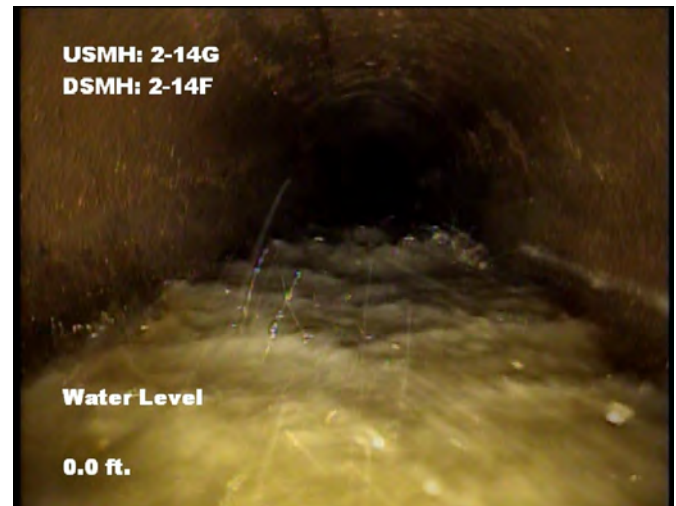


Image Report 4/Page

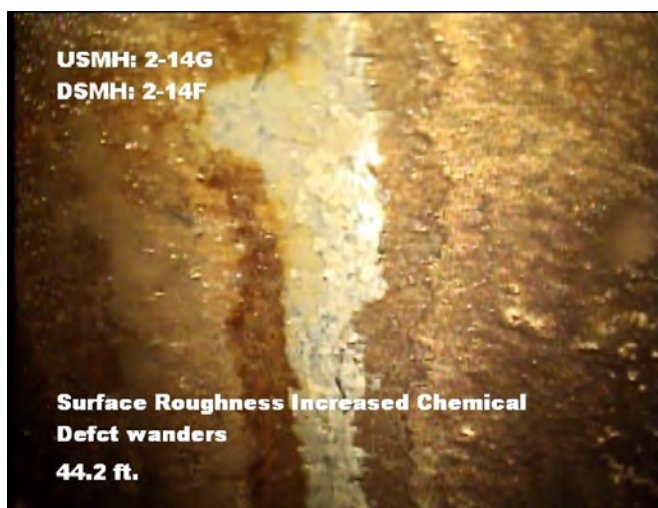
Pipe Segment Refere... 2-14G_2-14F	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14G	Total Length 289	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14F	Length surveyed 289	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



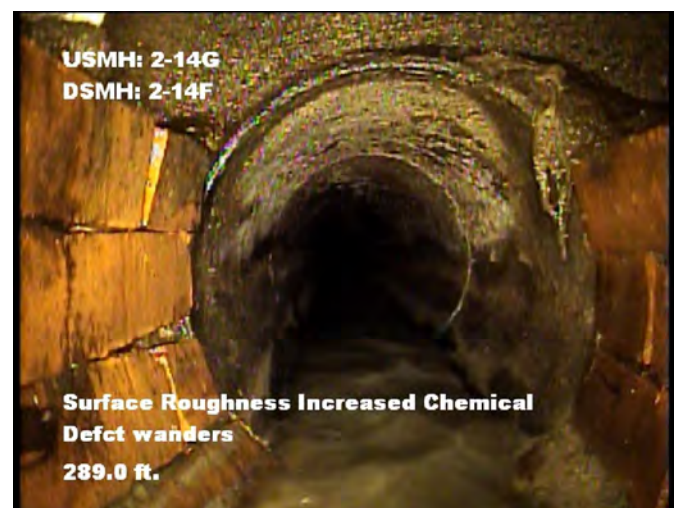
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14G



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 44.2 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defct wanders



Distance: 289.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defct wanders

Image Report 4/Page

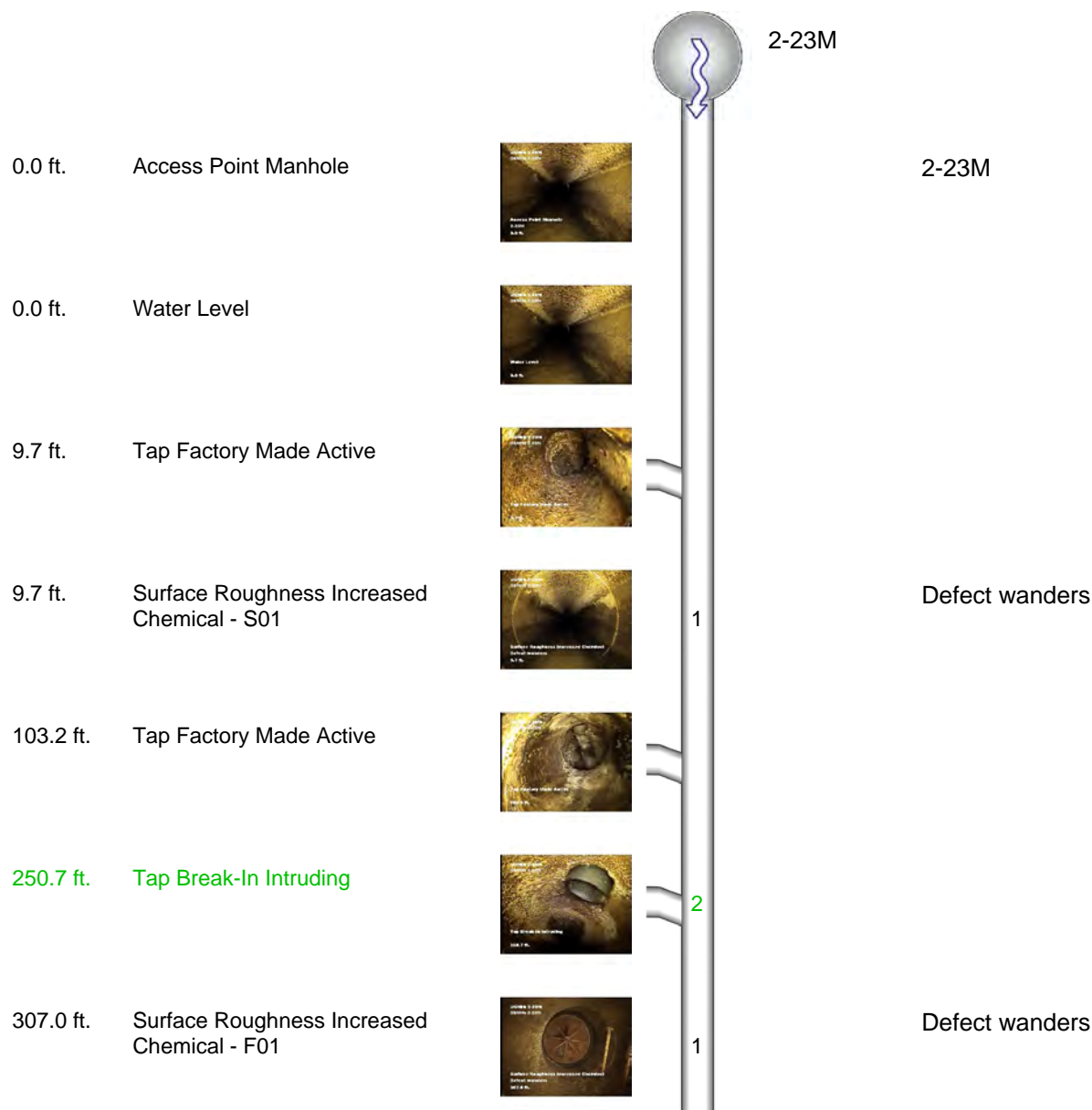
Pipe Segment Refere... 2-14G_2-14F	City Jamestown	Street Wollcott st	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-14G	Total Length 289	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14F	Length surveyed 289	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 289.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14F

Defect Listing Plot with Images

Pipe Segment Refere... 2-23M_2-23N	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23M	Total Length 307	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23N	Length surveyed 307	Year Renewed	Height 14	Width 14	Pipe Joint... 10
SPR 59	MPR 2	PO Number		Customer	
SPRI 1	MPRI 2	Work Order		Town of Jamestown	
QSR 1J00	QMR 2100			Purpose Infiltration/Inflow Investigat...	
OPR 61	Surveyed By J_Perry	Direction Downstream	Date 20120409	Media label	
OPRI 1	Certificate Number U-510-10733	Pre-Cleaning Jetting	Time 09:48	Weather Dry	
Date Cleaned 20120409			End Time 10:00	Additional Info	



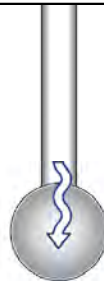
Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-23M_2-23N	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-23M	307		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-23N	307		14	14	10
SPR 59	MPR 2	PO Number		Customer	
SPRI 1	MPRI 2			Town of Jamestown	
QSR 1J00	QMR 2100	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 61	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120409		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	09:48	Dry	
Date Cleaned			End Time	Additional Info	
20120409			10:00		

307.0 ft. Access Point Manhole



2-23N



2-23N

Image Report 4/Page

Pipe Segment Refere... 2-23M_2-23N	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23M	Total Length 307	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23N	Length surveyed 307	Year Renewed	Height 14	Width 14	Pipe Joint... 10



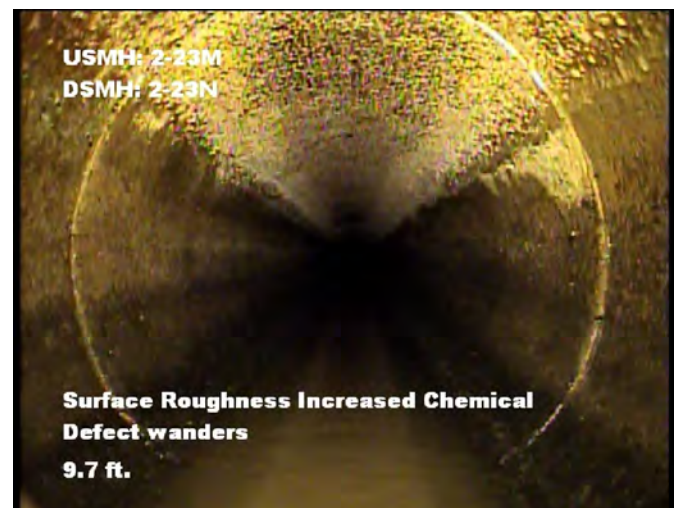
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23M



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 9.7 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 9.7 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

Image Report 4/Page

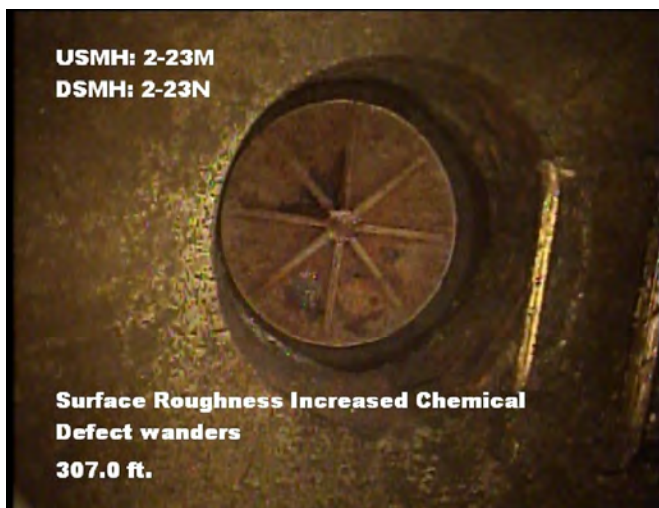
Pipe Segment Refere... 2-23M_2-23N	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23M	Total Length 307	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23N	Length surveyed 307	Year Renewed	Height 14	Width 14	Pipe Joint... 10



Distance: 103.2 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 250.7 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A



Distance: 307.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect wanders

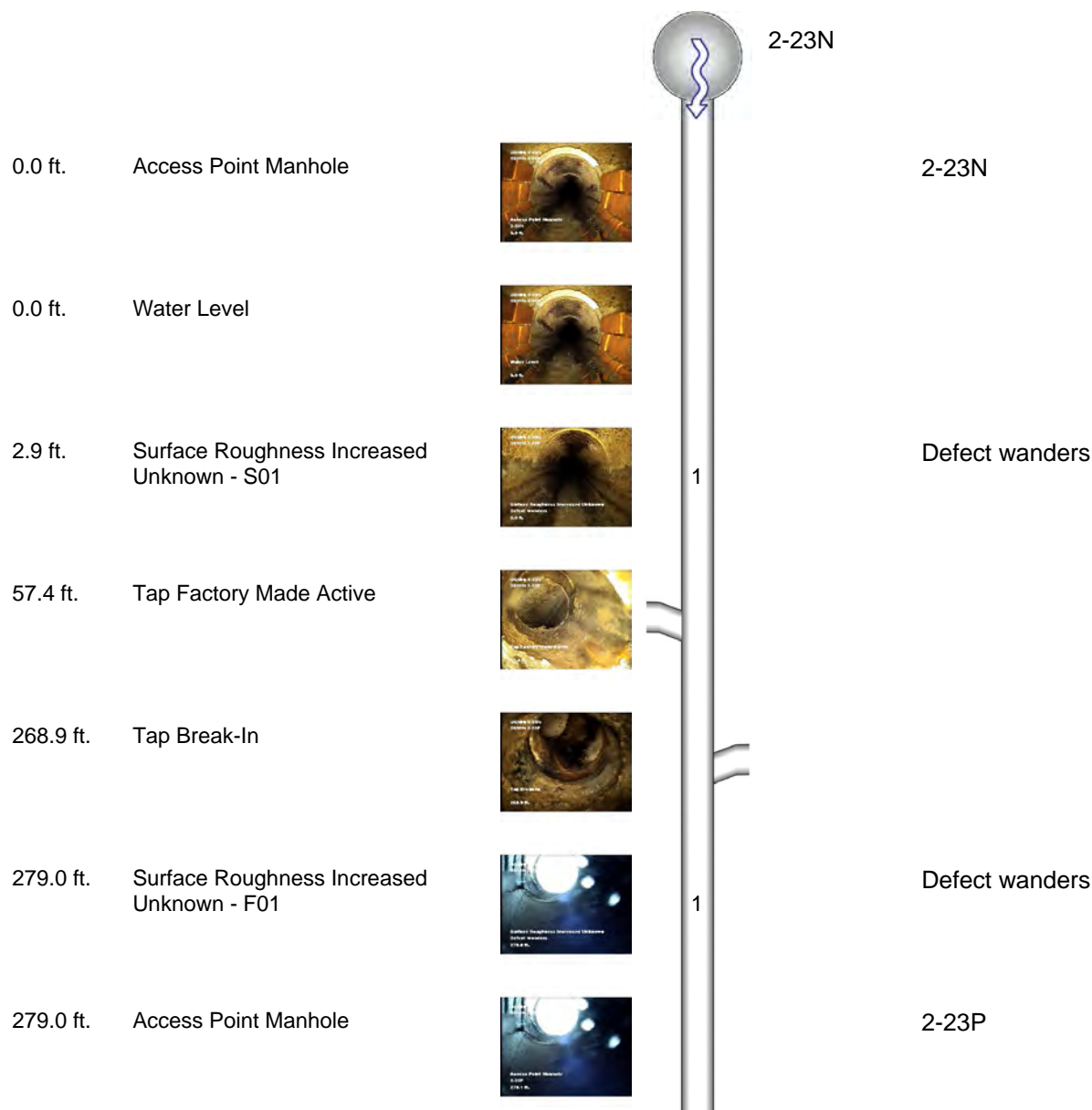


Distance: 307.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23N

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-23N_2-23P	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-23N	279		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-23P	279		14	14	10

SPR	55	MPR	N/A	PO Number	Customer
SPRI	1	MPRI	N/A		Town of Jamestown
QSR	1J00	QMR	N/A	Work Order	Purpose
					Infiltration/Inflow Investigat...
OPR		Surveyed By	Direction	Date	Media label
55		J_Perry	Downstream	20120409	
OPRI		Certificate Number	Pre-Cleaning	Time	Weather
1		U-510-10733	Jetting	10:06	Dry
		Date Cleaned		End Time	Additional Info
		20120409		10:21	



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-23N_2-23P	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-23N	279		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-23P	279		14	14	10
SPR 55	MPR N/A	PO Number		Customer	
SPRI 1	MPRI N/A			Town of Jamestown	
QSR 1J00	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 55	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120409		
OPRI 1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	10:06	Dry	
Date Cleaned			End Time	Additional Info	
20120409			10:21		



2-23P

Image Report 4/Page

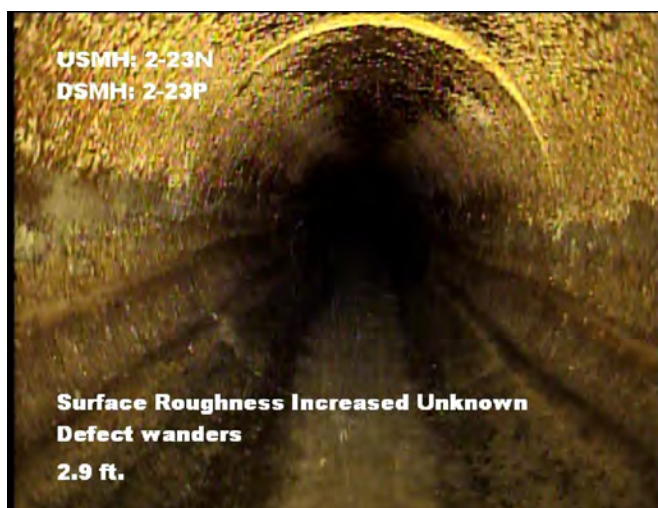
Pipe Segment Refere... 2-23N_2-23P	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23N	Total Length 279	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23P	Length surveyed 279	Year Renewed	Height 14	Width 14	Pipe Joint... 10



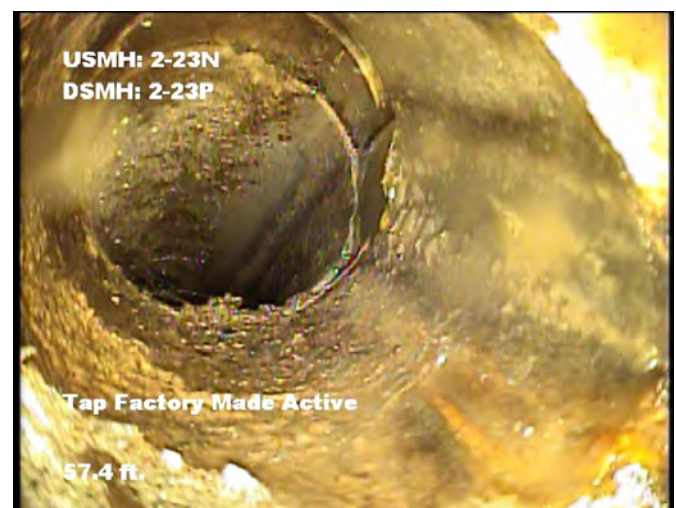
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23N



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 2.9 ft. Grade: 1
Condition: Surface Roughness Increased Unknown
Remarks: Defect wanders



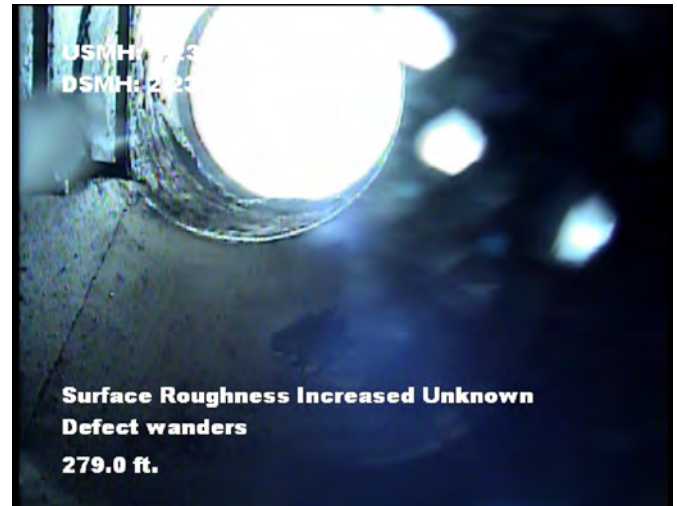
Distance: 57.4 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A

Image Report 4/Page

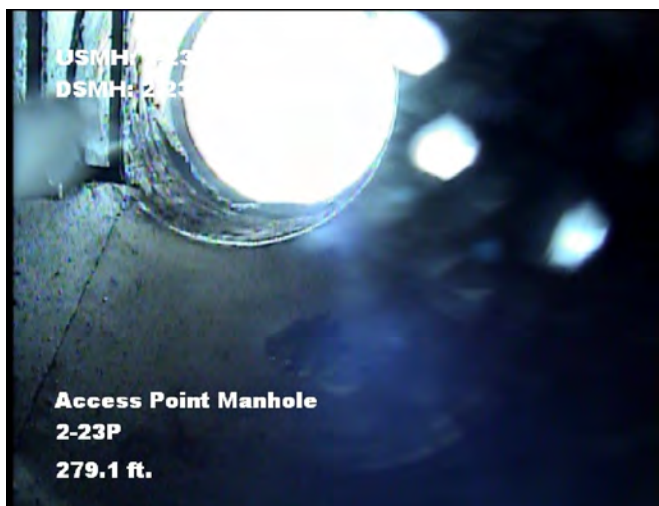
Pipe Segment Refere... 2-23N_2-23P	City Jamestown	Street Hamilton Ave	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23N	Total Length 279	Year Laid	Shape Circular		Location Details	
DS Manhole 2-23P	Length surveyed 279	Year Renewed	Height 14	Width 14	Pipe Joint... 10	



Distance: 268.9 ft. Grade: 0
Condition: Tap Break-In
Remarks: N/A



Distance: 279.0 ft. Grade: 1
Condition: Surface Roughness Increased Unknown
Remarks: Defect wanders



Distance: 279.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23P

Defect Listing Plot with Images

Pipe Segment Refere... 2-23P_2-23Q	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23P	Total Length 298	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23Q	Length surveyed 298	Year Renewed	Height 14	Width 14	Pipe Joint... 10
SPR 58	MPR N/A	PO Number		Customer Town of Jamestown	
SPRI 1	MPRI N/A	Work Order		Purpose Infiltration/Inflow Investigat...	
QSR 1J00	QMR N/A				
OPR 58	Surveyed By J_Perry	Direction Downstream	Date 20120409	Media label	
OPRI 1	Certificate Number U-510-10733	Pre-Cleaning Jetting	Time 12:47	Weather Dry	
Date Cleaned 20120409			End Time 12:47	Additional Info	

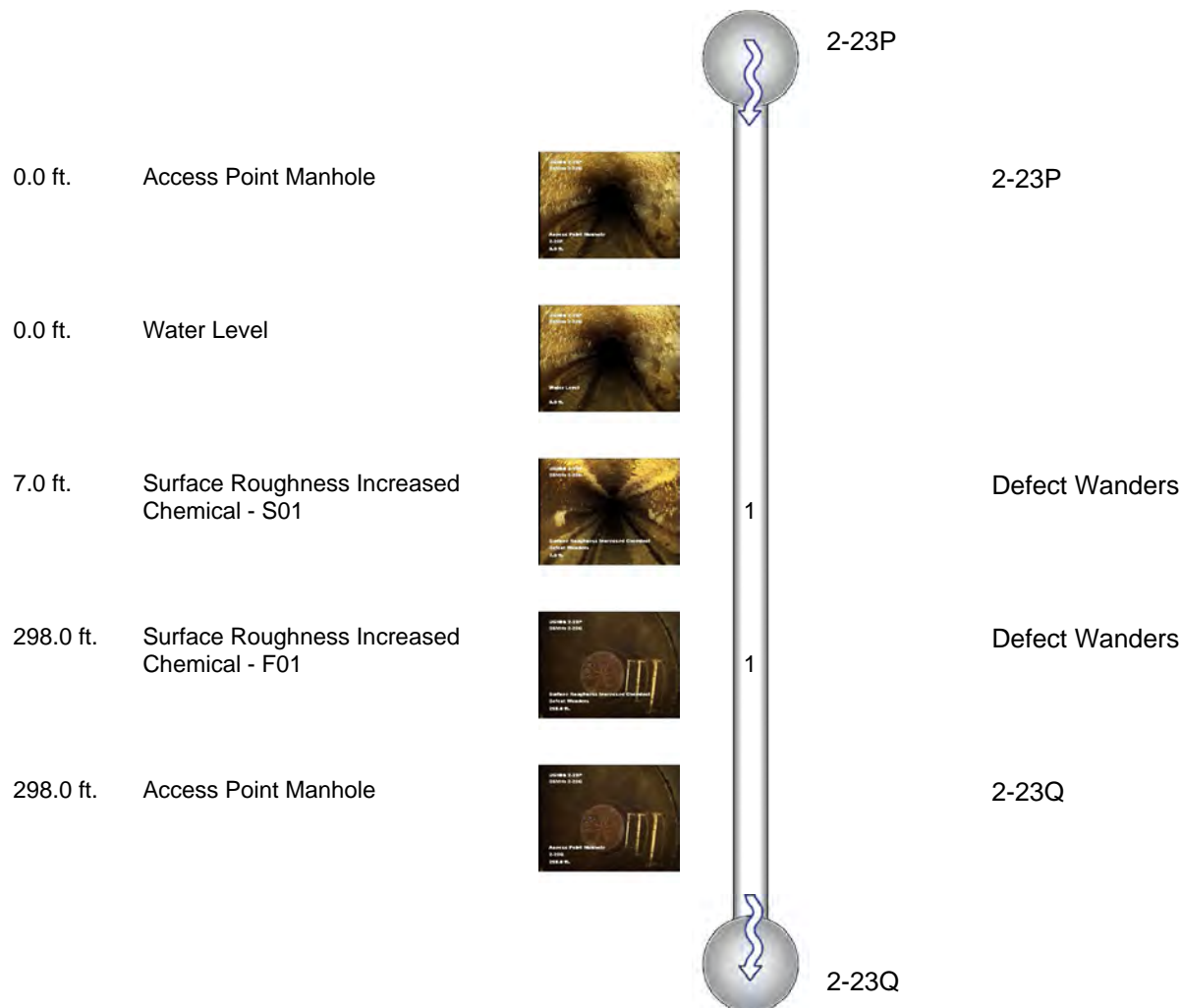


Image Report 4/Page

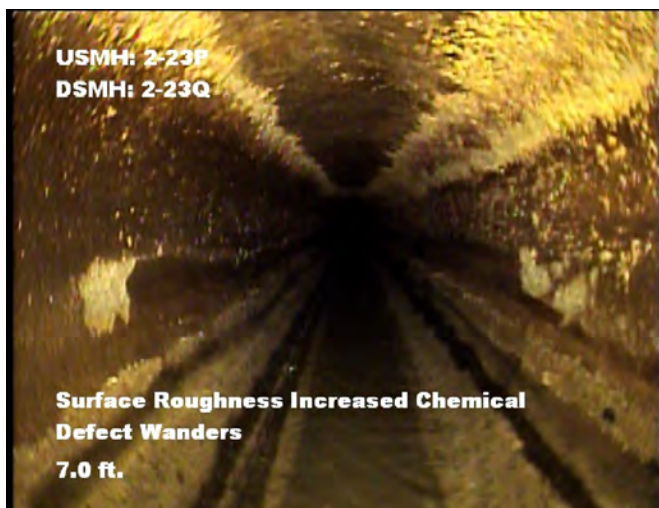
Pipe Segment Refere... 2-23P_2-23Q	City Jamestown	Street Hamilton Ave	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23P	Total Length 298	Year Laid	Shape Circular		Location Details	
DS Manhole 2-23Q	Length surveyed 298	Year Renewed	Height 14	Width 14	Pipe Joint... 10	



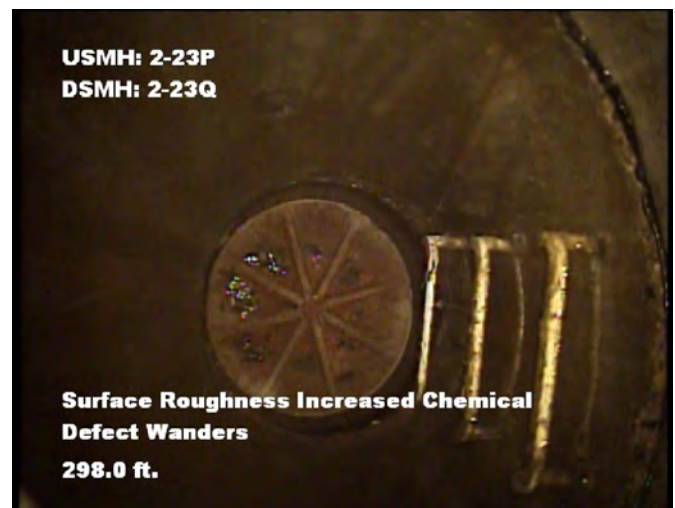
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23P



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 7.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect Wanders



Distance: 298.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: Defect Wanders

Image Report 4/Page

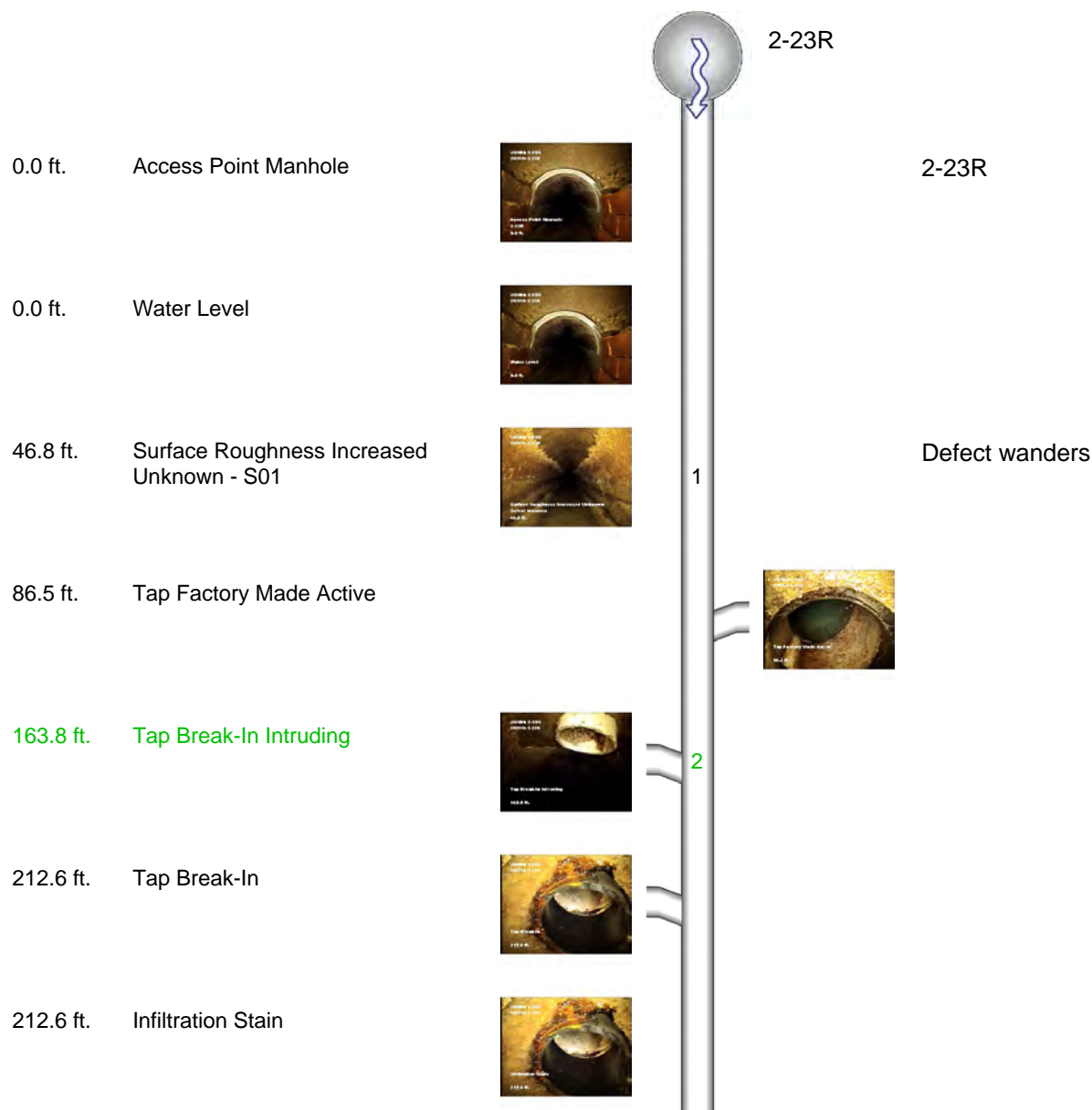
Pipe Segment Refere... 2-23P_2-23Q	City Jamestown	Street Hamilton Ave	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23P	Total Length 298	Year Laid	Shape Circular		Location Details	
DS Manhole 2-23Q	Length surveyed 298	Year Renewed	Height 14	Width 14	Pipe Joint... 10	



Distance: 298.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23Q

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-23Q_2-23-R	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-23R	303		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-23S	303		12	12	10
SPR 51	MPR 7	PO Number		Customer	
SPRI 1	MPRI 3.5			Town of Jamestown	
QSR 1100	QMR 5121	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 58	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120409		
OPRI 1.1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	11:07	Dry	
Date Cleaned			End Time	Additional Info	
20120409			11:28		

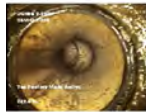


Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-23Q_2-23-R	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-23R	303		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-23S	303		12	12	10

SPR	51	MPR	7	PO Number	Customer
SPRI	1	MPRI	3.5	Work Order	Town of Jamestown
QSR	1100	QMR	5121		Purpose
					Infiltration/Inflow Investigat...
OPR		Surveyed By	Direction	Date	Media label
58		J_Perry	Downstream	20120409	
OPRI		Certificate Number	Pre-Cleaning	Time	Weather
1.1		U-510-10733	Jetting	11:07	Dry
Date Cleaned				End Time	Additional Info
20120409				11:28	

232.6 ft. Tap Factory Made Active



302.1 ft. Infiltration Gusher



In the manhole

303.0 ft. Access Point Manhole

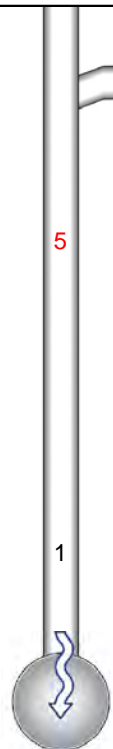


2-23S

303.0 ft. Surface Roughness Increased
Unknown - F01



Defect wanders



2-23S

Image Report 4/Page

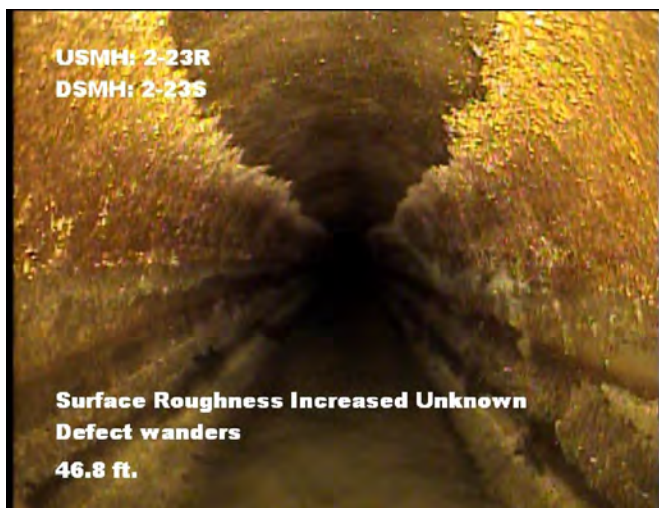
Pipe Segment Refere... 2-23Q_2-23-R	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23R	Total Length 303	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23S	Length surveyed 303	Year Renewed	Height 12	Width 12	Pipe Joint... 10



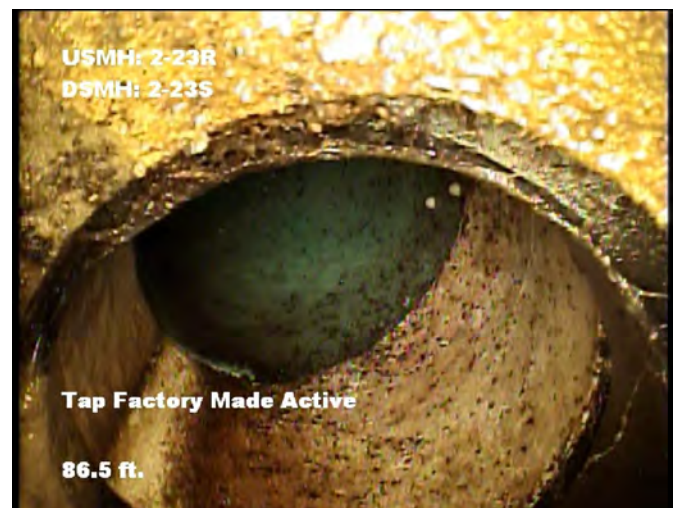
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23R



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



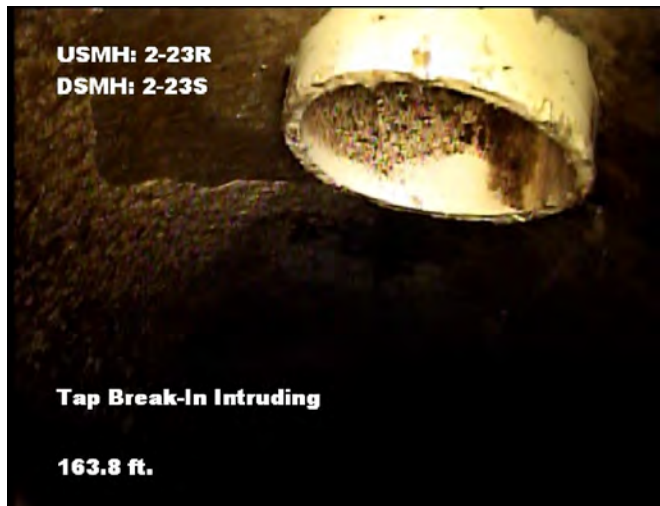
Distance: 46.8 ft. Grade: 1
Condition: Surface Roughness Increased Unknown
Remarks: Defect wanders



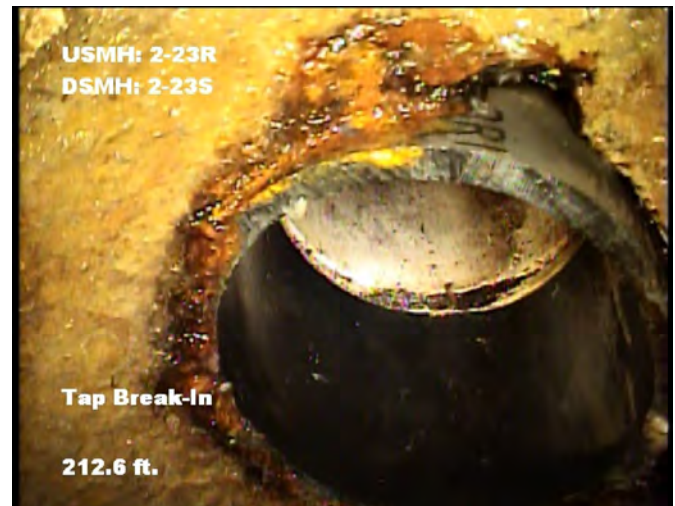
Distance: 86.5 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A

Image Report 4/Page

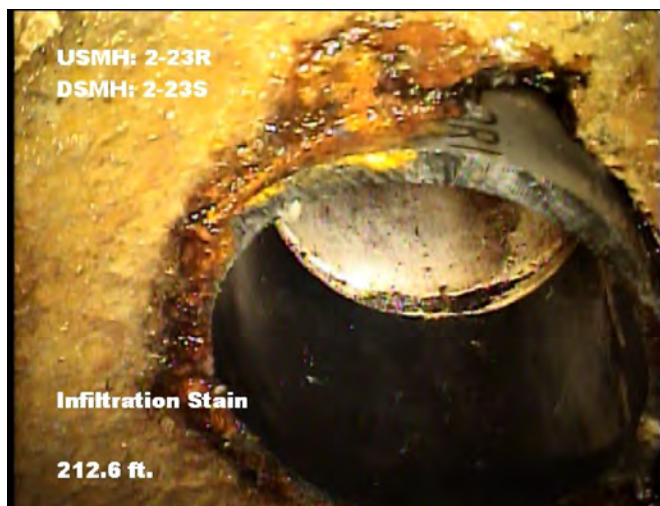
Pipe Segment Refere... 2-23Q_2-23-R	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23R	Total Length 303	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23S	Length surveyed 303	Year Renewed	Height 12	Width 12	Pipe Joint... 10



Distance: 163.8 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A



Distance: 212.6 ft. Grade: 0
Condition: Tap Break-In
Remarks: N/A



Distance: 212.6 ft. Grade: 0
Condition: Infiltration Stain
Remarks: N/A



Distance: 232.6 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A

Image Report 4/Page

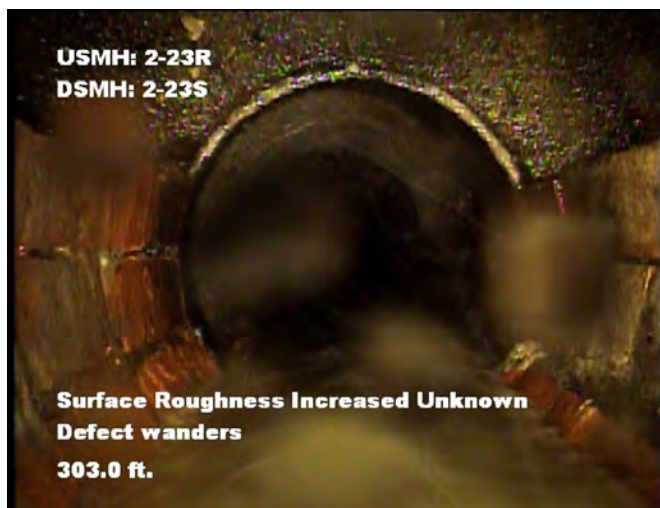
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-23Q_2-23-R	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-23R	303		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-23S	303		12	12	10



Distance: 302.1 ft. Grade: 5
Condition: Infiltration Gusher
Remarks: In the manhole



Distance: 303.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23S



Distance: 303.0 ft. Grade: 1
Condition: Surface Roughness Increased Unknown
Remarks: Defect wanders

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-23S_2-14G	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-23S	302		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-14G	302		12	12	10

SPR	54	MPR	N/A	PO Number	Customer
SPRI	1	MPRI	N/A		Town of Jamestown
QSR	1100	QMR	N/A	Work Order	Purpose
					Infiltration/Inflow Investigat...
OPR		Surveyed By	Direction	Date	Media label
54		J_Perry	Upstream	20120409	
OPRI		Certificate Number	Pre-Cleaning	Time	Weather
1		U-510-10733	Jetting	12:42	Dry
		Date Cleaned		End Time	Additional Info
		20120409		12:42	

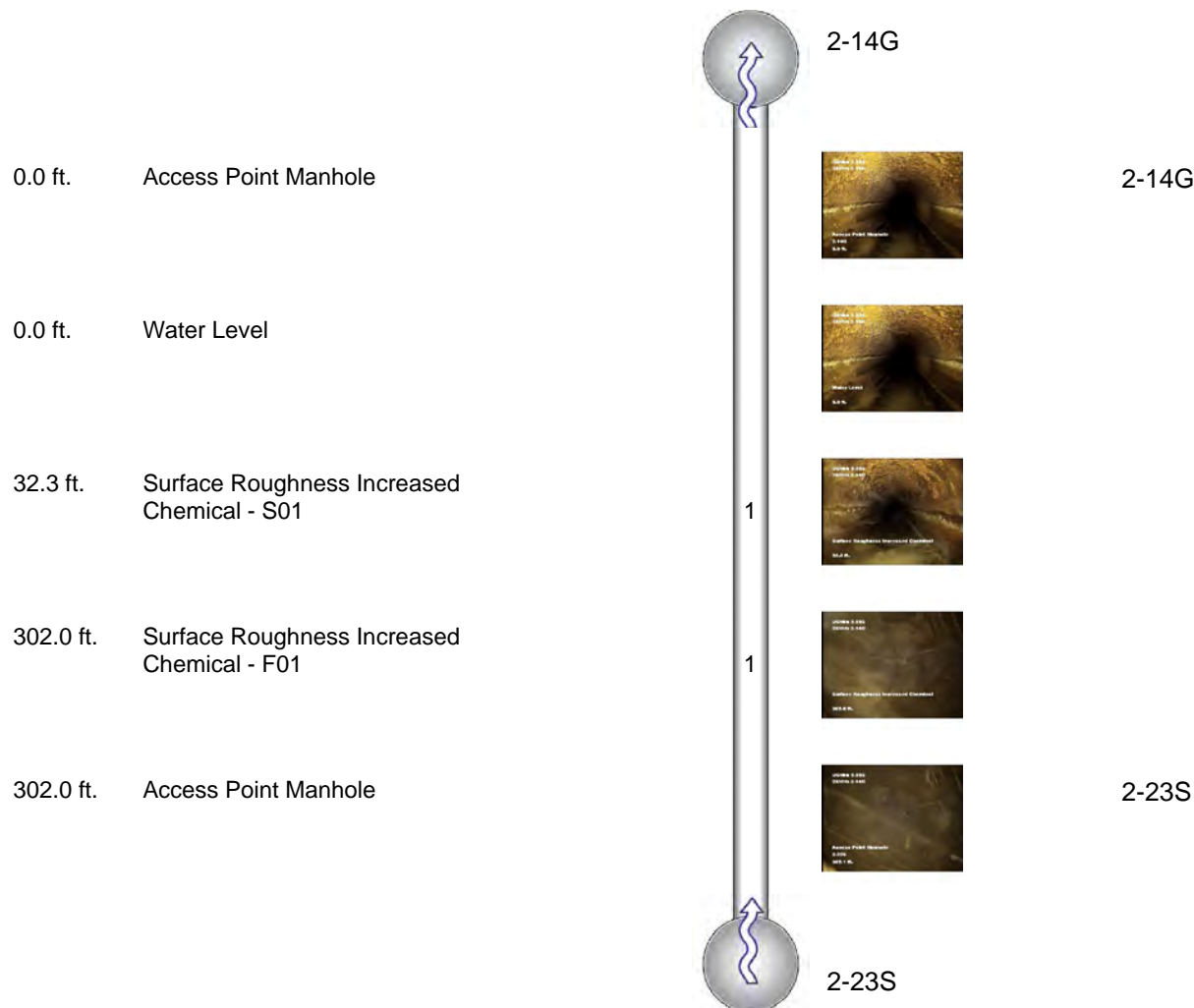
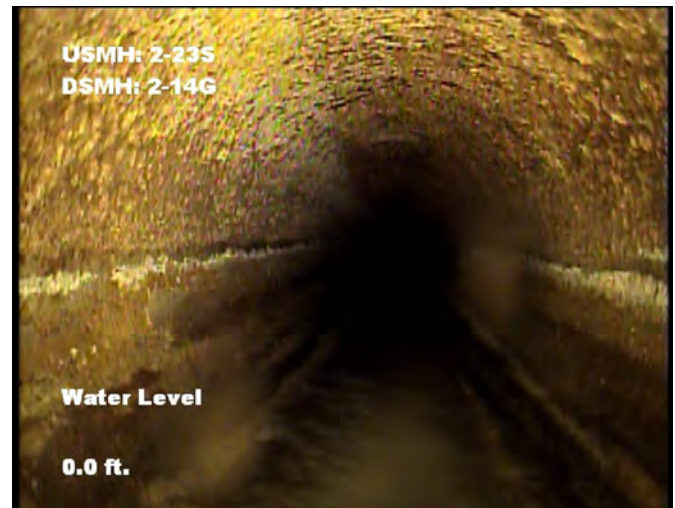


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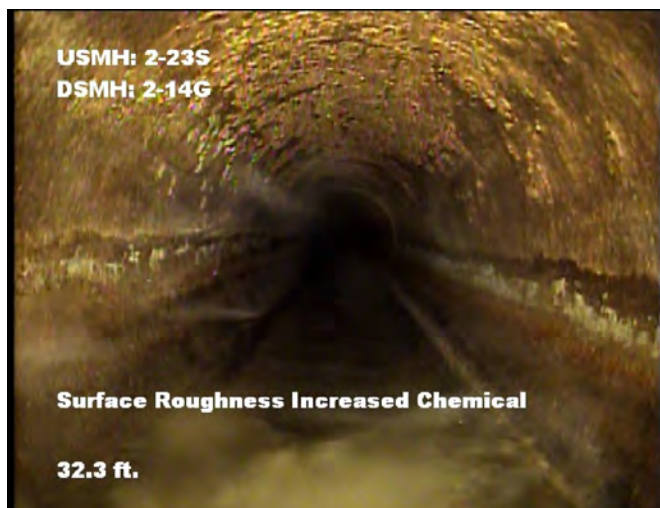
Pipe Segment Refere... 2-23S_2-14G	City Jamestown	Street Hamilton Ave	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23S	Total Length 302	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14G	Length surveyed 302	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



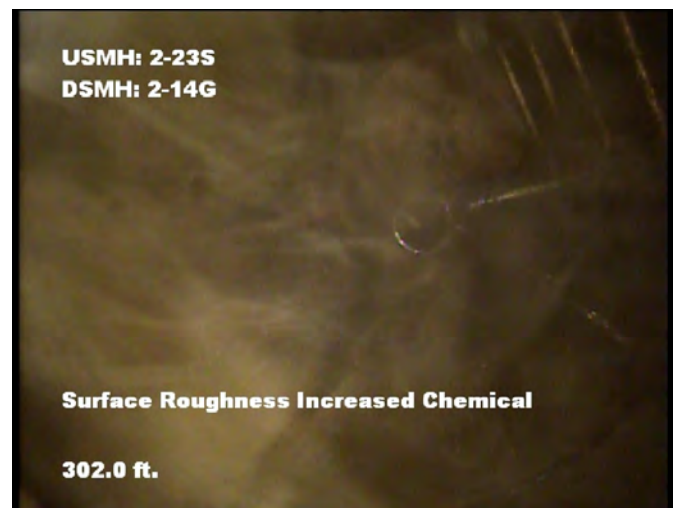
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-14G



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 32.3 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A



Distance: 302.0 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A

Image Report 4/Page

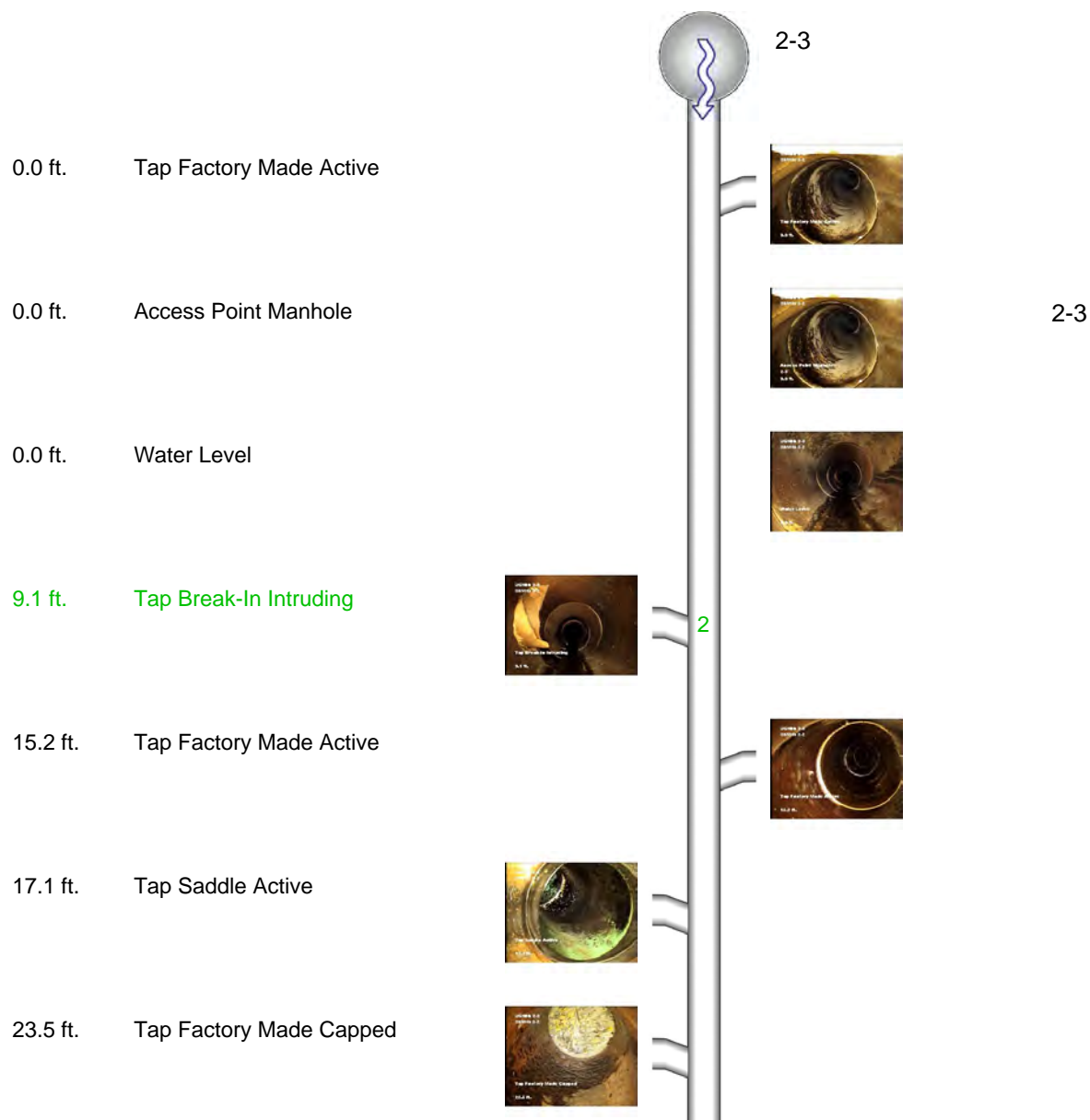
Pipe Segment Refere... 2-23S_2-14G	City Jamestown	Street Hamilton Ave	Material Asbestos Cement		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-23S	Total Length 302	Year Laid	Shape Circular		Location Details	
DS Manhole 2-14G	Length surveyed 302	Year Renewed	Height 12	Width 12	Pipe Joint... 10	



Distance: 302.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23S

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-3	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-2	248		12	12	4
SPR 12	MPR 17	PO Number		Customer	
SPRI 2.4	MPRI 2.1			Town Of Jamestown	
QSR 3321	QMR 3127	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 29	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	07:35	Dry	
Date Cleaned			End Time	Additional Info	
20120410			08:05		



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-3	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-2	248		12	12	4
SPR 12	MPR 17	PO Number		Customer	
SPRI 2.4	MPRI 2.1			Town Of Jamestown	
QSR 3321	QMR 3127	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 29	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	07:35	Dry	
Date Cleaned			End Time	Additional Info	
20120410			08:05		

26.5 ft. Fracture Longitudinal



3

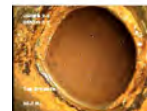
27.2 ft. Tap Saddle Active



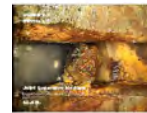
31.6 ft. Tap Factory Made Capped



35.2 ft. Tap Break-In



65.4 ft. Joint Separated Medium



1

76.7 ft. Tap Factory Made Capped



80.7 ft. Tap Factory Made Active



With grease

97.4 ft. Tap Break-In



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-3	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-2	248		12	12	4
SPR 12	MPR 17	PO Number		Customer	
SPRI 2.4	MPRI 2.1			Town Of Jamestown	
QSR 3321	QMR 3127	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 29	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	07:35	Dry	
Date Cleaned			End Time	Additional Info	
20120410			08:05		

121.6 ft. Tap Factory Made Capped



130.1 ft. Tap Factory Made Capped



131.9 ft. Tap Break-In

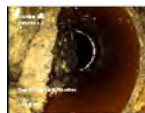


140.0 ft. Deposits Attached Grease



2

142.0 ft. Tap Break-In Defective



3

146.9 ft. Tap Saddle Active



177.1 ft. Tap Factory Made Defective



2

Plugged with debris

193.6 ft. Fracture Longitudinal



3

Defect Listing Plot with Images

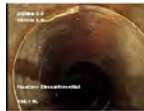
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-3	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-2	248		12	12	4
SPR 12	MPR 17	PO Number		Customer	
SPRI 2.4	MPRI 2.1			Town Of Jamestown	
QSR 3321	QMR 3127	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 29	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 2.2	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	07:35	Dry	
Date Cleaned			End Time	Additional Info	
20120410			08:05		

194.8 ft. Tap Break-In Intruding



2

195.1 ft. Fracture Circumferential



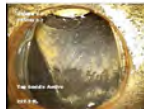
2

195.9 ft. Broken Pipe



3

222.2 ft. Tap Saddle Active



225.9 ft. Tap Factory Made Capped



229.4 ft. Tap Break-In



230.5 ft. Deposits Attached Grease



2

234.4 ft. Tap Factory Made Active



Defect Listing Plot with Images

Pipe Segment Refere... 2-3_2-2	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-3	Total Length 248	Year Laid	Shape Circular		Location Details	
DS Manhole 2-2	Length surveyed 248	Year Renewed	Height 12	Width 12	Pipe Joint...	
					4	

SPR	12	MPR	17	PO Number		Customer	
SPRI	2.4	MPRI	2.1			Town Of Jamestown	
QSR	3321	QMR	3127	Work Order		Purpose	
						Infiltration/Inflow Investigat...	
OPR 29	Surveyed By J_Perry		Direction Downstream	Date 20120410		Media label	
OPRI 2.2	Certificate Number U-510-10733		Pre-Cleaning Jetting	Time 07:35		Weather Dry	
Date Cleaned 20120410				End Time 08:05		Additional Info	

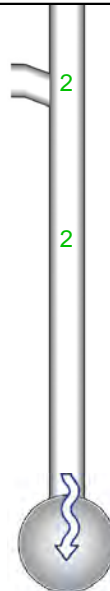
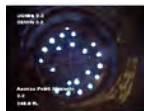
234.4 ft. Tap Break-In Intruding



238.5 ft. Deposits Attached Grease



248.0 ft. Access Point Manhole



2-2

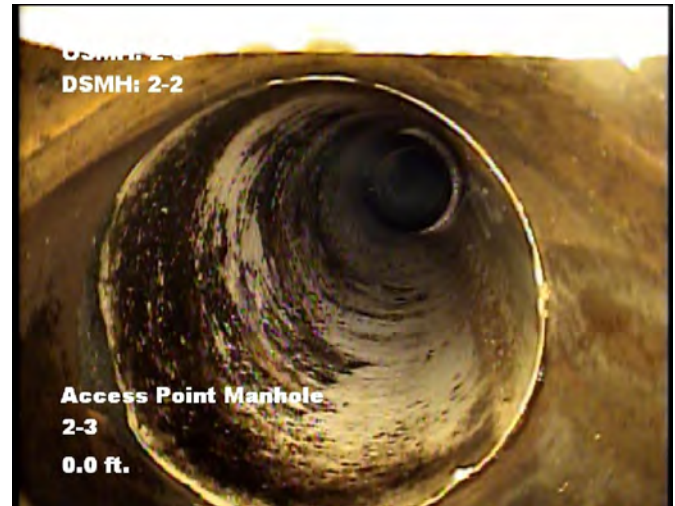
2-2

Image Report 4/Page

Pipe Segment Refere... 2-3_2-2	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-3	Total Length 248	Year Laid	Shape Circular	Location Details	
DS Manhole 2-2	Length surveyed 248	Year Renewed	Height 12	Width 12	Pipe Joint... 4



Distance: 0.0 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-3



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 9.1 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-3_2-2	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-3	Total Length 248	Year Laid	Shape Circular		Location Details	
DS Manhole 2-2	Length surveyed 248	Year Renewed	Height 12	Width 12	Pipe Joint... 4	



Distance: 15.2 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 17.1 ft. Grade: 0
Condition: Tap Saddle Active
Remarks: N/A



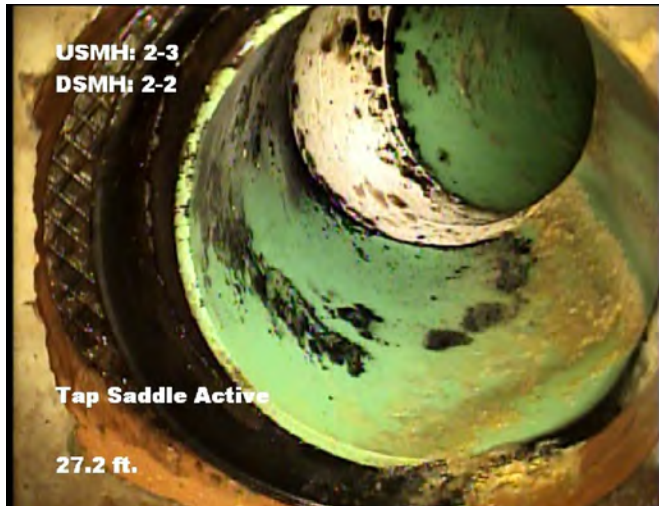
Distance: 23.5 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 26.5 ft. Grade: 3
Condition: Fracture Longitudinal
Remarks: N/A

Image Report 4/Page

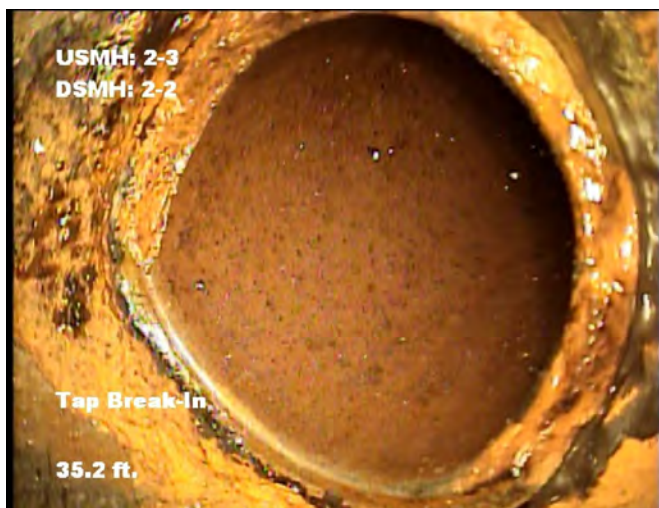
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-3	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-2	248		12	12	4



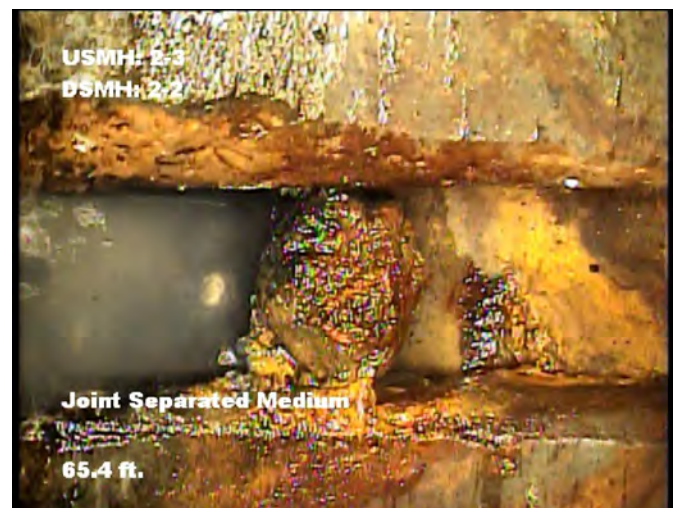
Distance: 27.2 ft. Grade: 0
Condition: Tap Saddle Active
Remarks: N/A



Distance: 31.6 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 35.2 ft. Grade: 0
Condition: Tap Break-In
Remarks: N/A



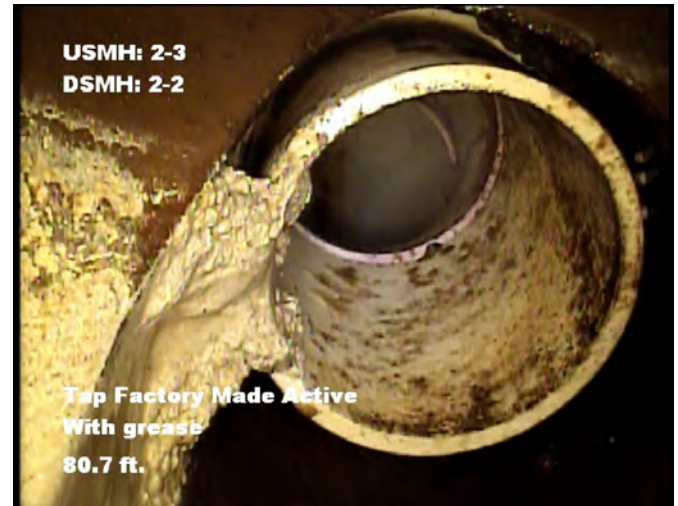
Distance: 65.4 ft. Grade: 1
Condition: Joint Separated Medium
Remarks: N/A

Image Report 4/Page

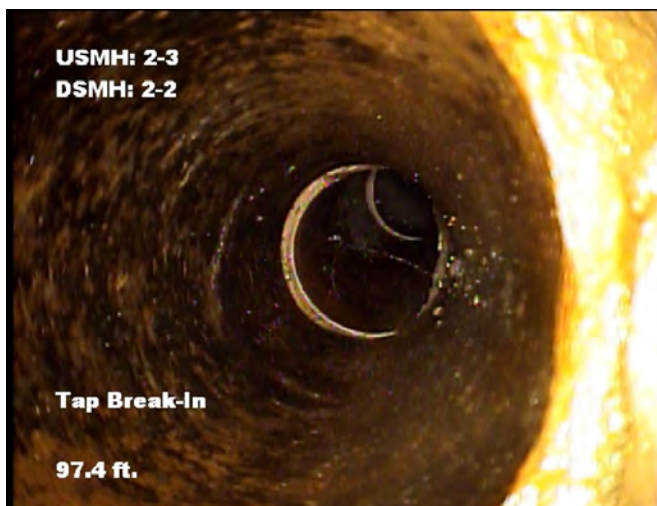
Pipe Segment Refere... 2-3_2-2	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-3	Total Length 248	Year Laid	Shape Circular	Location Details	
DS Manhole 2-2	Length surveyed 248	Year Renewed	Height 12	Width 12	Pipe Joint... 4



Distance: 76.7 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 80.7 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: With grease



Distance: 97.4 ft. Grade: 0
Condition: Tap Break-In
Remarks: N/A



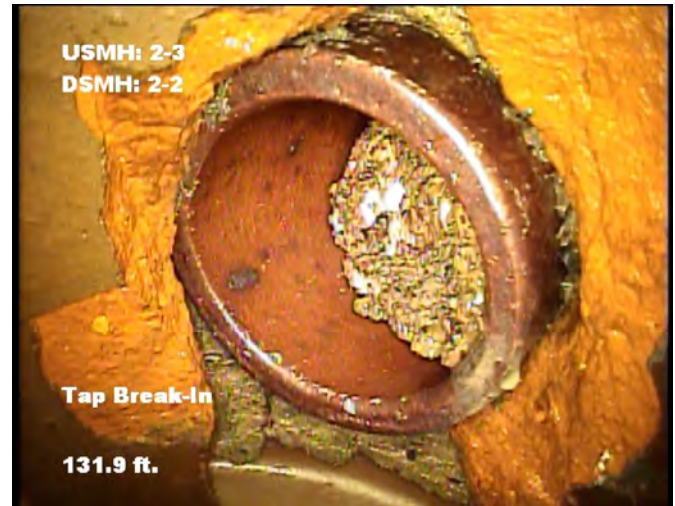
Distance: 121.6 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A

Image Report 4/Page

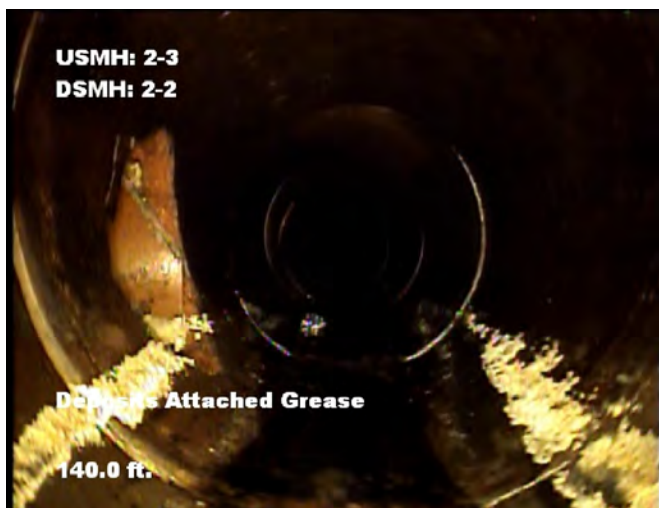
Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-3	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-2	248		12	12	4



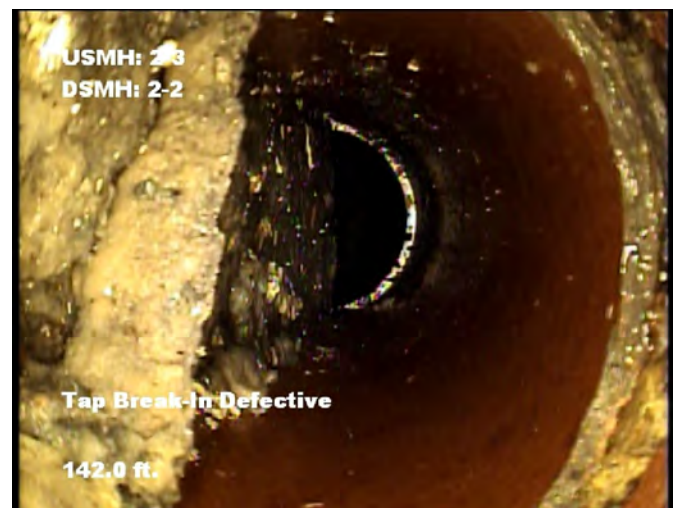
Distance: 130.1 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 131.9 ft. Grade: 0
Condition: Tap Break-In
Remarks: N/A



Distance: 140.0 ft. Grade: 2
Condition: Deposits Attached Grease
Remarks: N/A



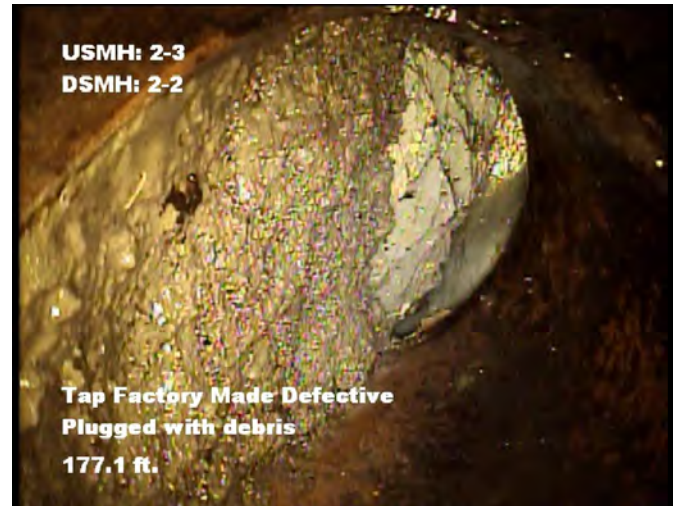
Distance: 142.0 ft. Grade: 3
Condition: Tap Break-In Defective
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-3_2-2	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-3	Total Length 248	Year Laid	Shape Circular	Location Details	
DS Manhole 2-2	Length surveyed 248	Year Renewed	Height 12	Width 12	Pipe Joint... 4



Distance: 146.9 ft. Grade: 0
Condition: Tap Saddle Active
Remarks: N/A



Distance: 177.1 ft. Grade: 2
Condition: Tap Factory Made Defective
Remarks: Plugged with debris



Distance: 193.6 ft. Grade: 3
Condition: Fracture Longitudinal
Remarks: N/A



Distance: 194.8 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-3_2-2	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-3	Total Length 248	Year Laid	Shape Circular	Location Details	
DS Manhole 2-2	Length surveyed 248	Year Renewed	Height 12	Width 12	Pipe Joint... 4



Distance: 195.1 ft. Grade: 2
Condition: Fracture Circumferential
Remarks: N/A



Distance: 195.9 ft. Grade: 3
Condition: Broken Pipe
Remarks: N/A



Distance: 222.2 ft. Grade: 0
Condition: Tap Saddle Active
Remarks: N/A



Distance: 225.9 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-3_2-2	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-3	Total Length 248	Year Laid	Shape Circular	Location Details	
DS Manhole 2-2	Length surveyed 248	Year Renewed	Height 12	Width 12	Pipe Joint... 4



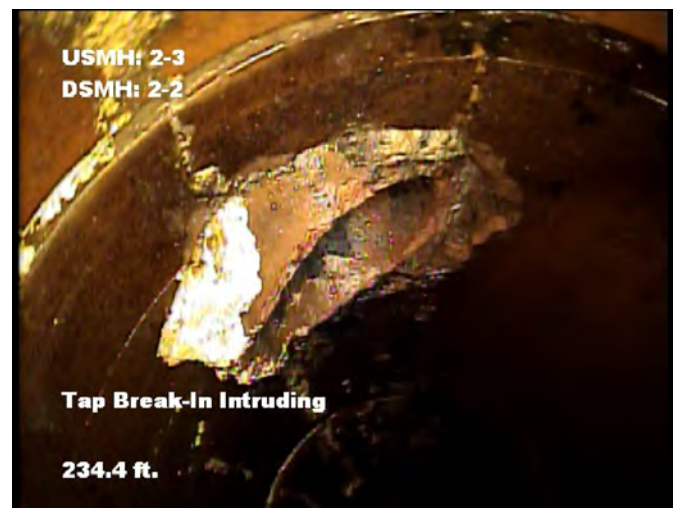
Distance: 229.4 ft. Grade: 0
Condition: Tap Break-In
Remarks: N/A



Distance: 230.5 ft. Grade: 2
Condition: Deposits Attached Grease
Remarks: N/A



Distance: 234.4 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



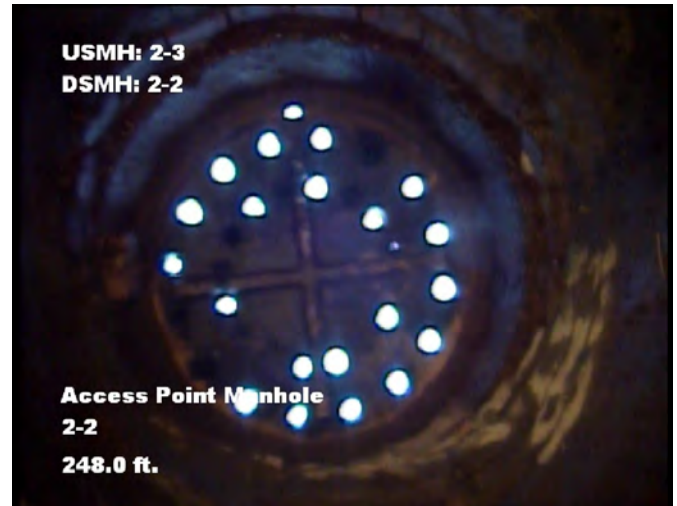
Distance: 234.4 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-3	248		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-2	248		12	12	4



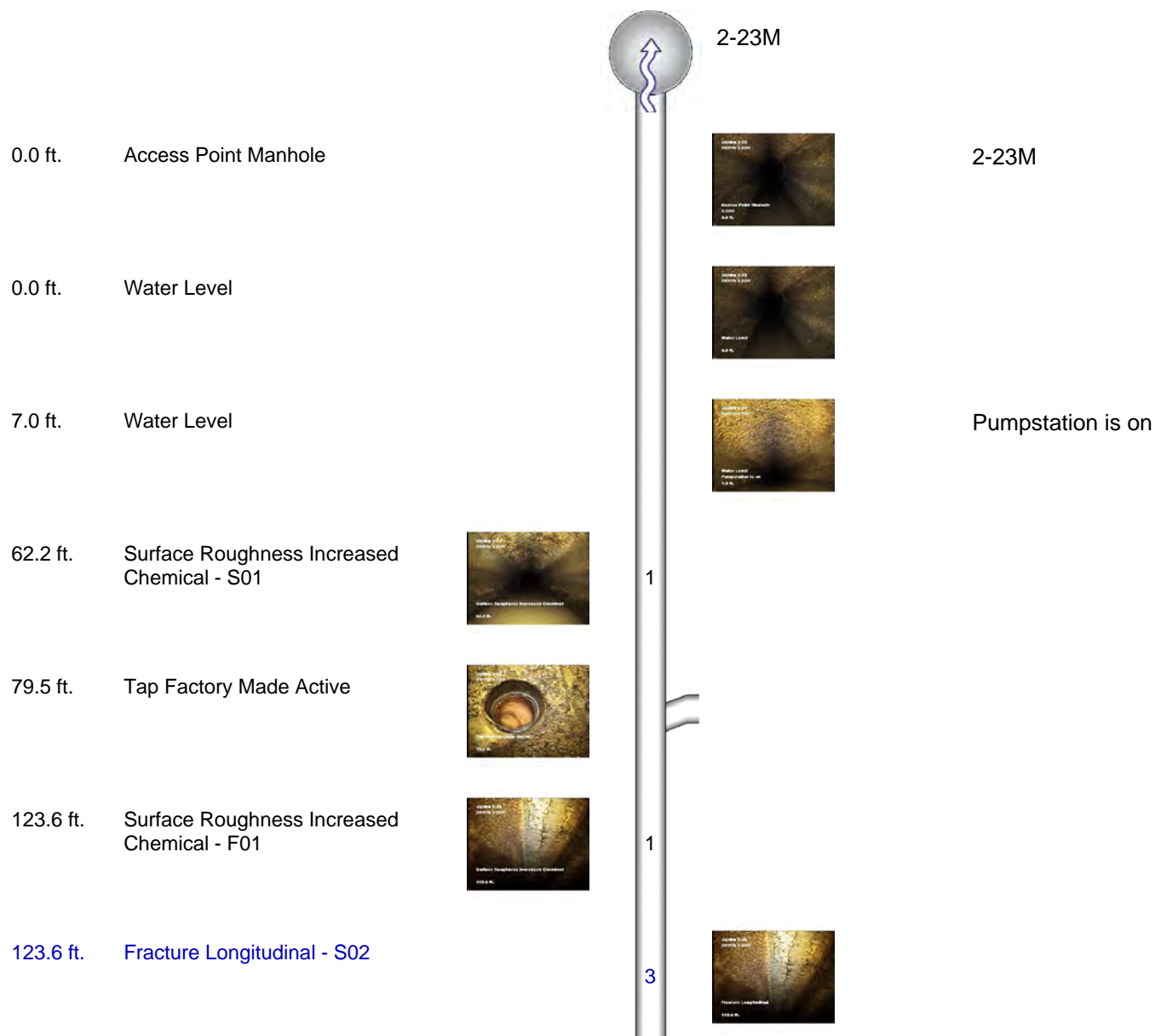
Distance: 238.5 ft. Grade: 2
Condition: Deposits Attached Grease
Remarks: N/A



Distance: 248.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-2

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-32_2-23M	Jamestown	Hamilton Ave	Asbestos Cement	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-32	240		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-23M	240		14	14	10
SPR 37	MPR N/A	PO Number		Customer	
SPRI 1.1	MPRI N/A			Town of Jamestown	
QSR 311E	QMR N/A	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 37	Surveyed By	Direction	Date	Media label	
	J_Perry	Upstream	20120409		
OPRI 1.1	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	09:24	Dry	
Date Cleaned			End Time	Additional Info	
20120409			09:41	No Access to pipe i...	



Defect Listing Plot with Images

Pipe Segment Refere... 2-32_2-23M	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-32	Total Length 240	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23M	Length surveyed 240	Year Renewed	Height 14	Width 14	Pipe Joint... 10

SPR 37	MPR N/A	PO Number		Customer Town of Jamestown	
SPRI 1.1	MPRI N/A	Work Order		Purpose Infiltration/Inflow Investigat...	
QSR 311E	QMR N/A			Media label	
OPR 37	Surveyed By J_Perry	Direction Upstream	Date 20120409		
OPRI 1.1	Certificate Number U-510-10733	Pre-Cleaning Jetting	Time 09:24	Weather Dry	
Date Cleaned 20120409			End Time 09:41	Additional Info No Access to pipe i...	

129.9 ft. Fracture Longitudinal - F02

3



129.9 ft. Surface Roughness Increased
Unknown - S03

1



Defect wanders

144.5 ft. General Observation



Pumpstation is on

240.0 ft. Access Point Manhole



2-23M

240.0 ft. Surface Roughness Increased
Unknown - F03

1



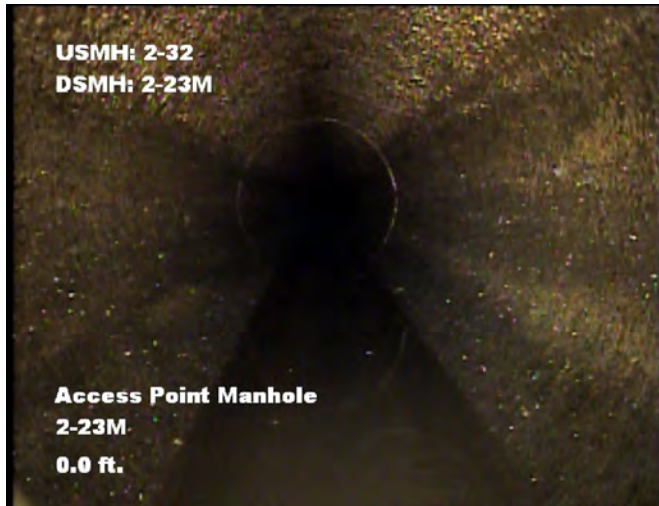
Defect wanders



2-32

Image Report 4/Page

Pipe Segment Refere... 2-32_2-23M	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-32	Total Length 240	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23M	Length surveyed 240	Year Renewed	Height 14	Width 14	Pipe Joint... 10



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23M



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 7.0 ft. Grade: 0
Condition: Water Level
Remarks: Pumpstation is on



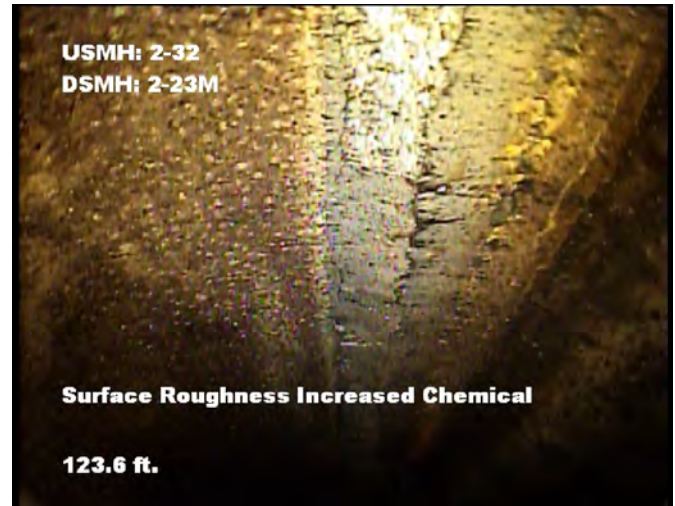
Distance: 62.2 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A

Image Report 4/Page

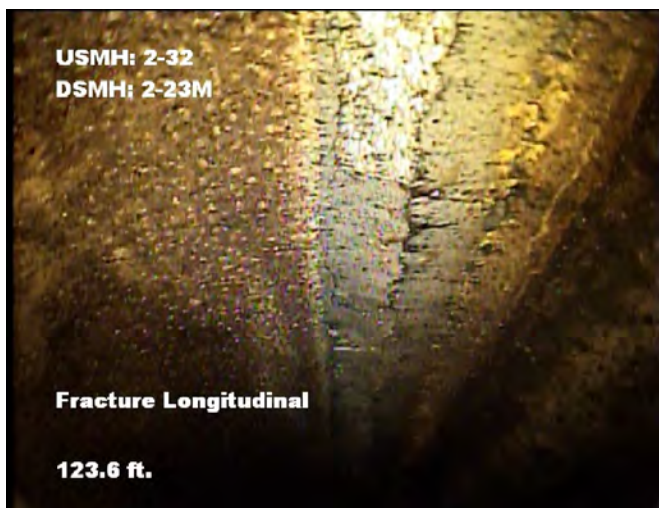
Pipe Segment Refere... 2-32_2-23M	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-32	Total Length 240	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23M	Length surveyed 240	Year Renewed	Height 14	Width 14	Pipe Joint... 10



Distance: 79.5 ft. Grade: 0
Condition: Tap Factory Made Active
Remarks: N/A



Distance: 123.6 ft. Grade: 1
Condition: Surface Roughness Increased Chemical
Remarks: N/A



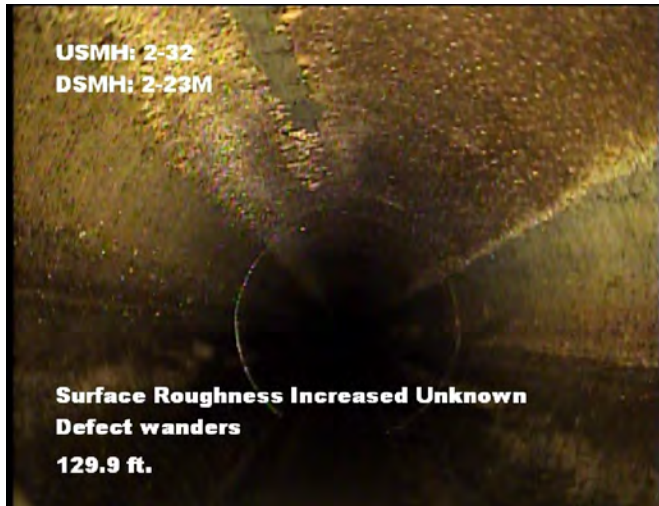
Distance: 123.6 ft. Grade: 3
Condition: Fracture Longitudinal
Remarks: N/A



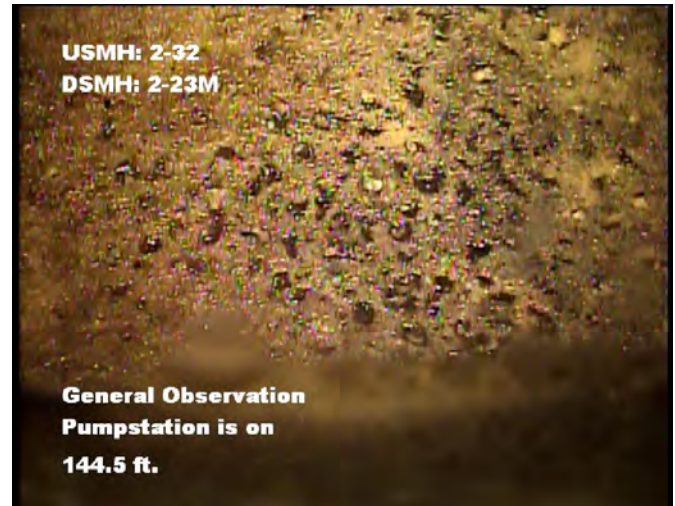
Distance: 129.9 ft. Grade: 3
Condition: Fracture Longitudinal
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-32_2-23M	City Jamestown	Street Hamilton Ave	Material Asbestos Cement	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-32	Total Length 240	Year Laid	Shape Circular	Location Details	
DS Manhole 2-23M	Length surveyed 240	Year Renewed	Height 14	Width 14	Pipe Joint... 10



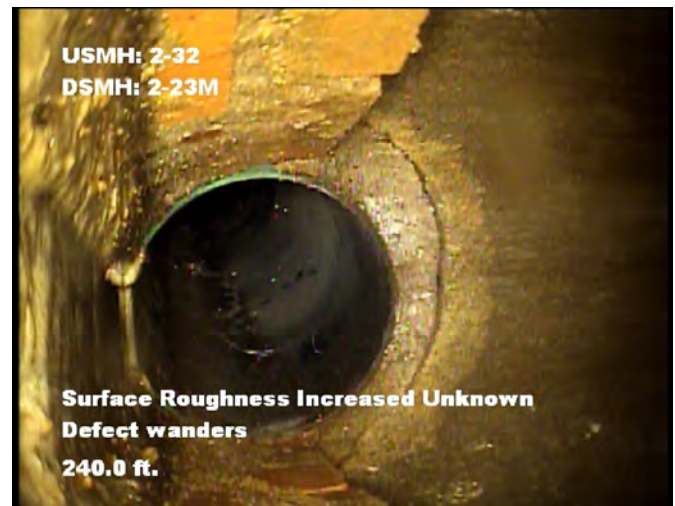
Distance: 129.9 ft. Grade: 1
Condition: Surface Roughness Increased Unknown
Remarks: Defect wanders



Distance: 144.5 ft. Grade: 0
Condition: General Observation
Remarks: Pumpstation is on



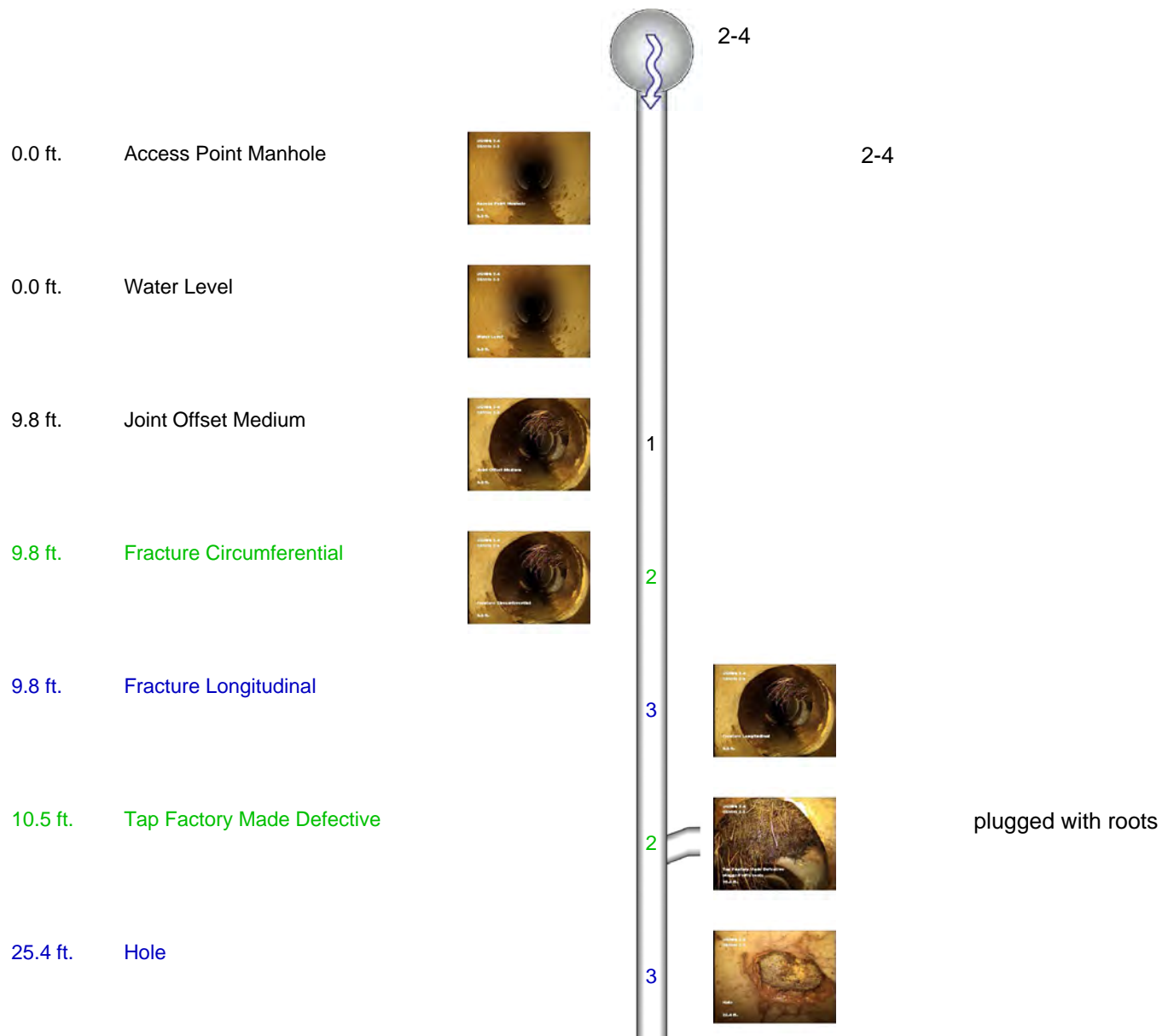
Distance: 240.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-23M



Distance: 240.0 ft. Grade: 1
Condition: Surface Roughness Increased Unknown
Remarks: Defect wanders

Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-4_2-3	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-4	316		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-3	63		8	8	3
SPR 19	MPR 13	PO Number		Customer	
SPRI 2.7	MPRI 4.3			Town Of Jamestown	
QSR 4232	QMR 2611	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 32	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 3.2	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	06:51	Dry	
Date Cleaned			End Time	Additional Info	
20120410			07:18	Line was cleaned wi...	



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-4_2-3	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-4	316		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-3	63		8	8	3
SPR 19	MPR 13	PO Number		Customer	
SPRI 2.7	MPRI 4.3			Town Of Jamestown	
QSR 4232	QMR 2611	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 32	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 3.2	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	06:51	Dry	
Date Cleaned			End Time	Additional Info	
20120410			07:18	Line was cleaned wi...	

25.4 ft. Fracture Multiple

4



26.2 ft. Fracture Multiple

4



26.4 ft. Tap Break-In Intruding

2



197.0 ft. General Observation



End of survey due to tap

197.0 ft. Infiltration Stain - F01

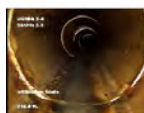


198.9 ft. Tap Break-In Intruding

2



216.0 ft. Infiltration Stain - S01



217.6 ft. Infiltration Stain



Defect Listing Plot with Images

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-4_2-3	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-4	316		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-3	63		8	8	3
SPR 19	MPR 13	PO Number		Customer	
SPRI 2.7	MPRI 4.3			Town Of Jamestown	
QSR 4232	QMR 2611	Work Order		Purpose	
				Infiltration/Inflow Investigat...	
OPR 32	Surveyed By	Direction	Date	Media label	
	J_Perry	Downstream	20120410		
OPRI 3.2	Certificate Number	Pre-Cleaning	Time	Weather	
	U-510-10733	Jetting	06:51	Dry	
Date Cleaned			End Time	Additional Info	
20120410			07:18	Line was cleaned wi...	

221.1 ft. Tap Factory Made Capped



221.9 ft. Crack Longitudinal

2



222.5 ft. Tap Break-In Intruding

2

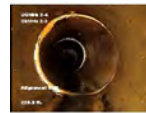


226.6 ft. Tap Factory Made Capped



228.8 ft. Alignment Left

2



241.8 ft. Alignment Right

2



246.0 ft. Alignment Left

1



269.6 ft. Tap Factory Made Capped



Defect Listing Plot with Images

Pipe Segment Refere... 2-4_2-3	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-4	Total Length 316	Year Laid	Shape Circular	Location Details	
DS Manhole 2-3	Length surveyed 63	Year Renewed	Height 8	Width 8	Pipe Joint... 3

SPR 19	MPR 13	PO Number		Customer Town Of Jamestown	
SPRI 2.7	MPRI 4.3	Work Order		Purpose Infiltration/Inflow Investigat...	
QSR 4232	QMR 2611			Media label	
OPR 32	Surveyed By J_Perry	Direction Downstream	Date 20120410		
OPRI 3.2	Certificate Number U-510-10733	Pre-Cleaning Jetting	Time 06:51	Weather Dry	
Date Cleaned 20120410			End Time 07:18	Additional Info Line was cleaned wi...	

297.9 ft. Shape or Size Change

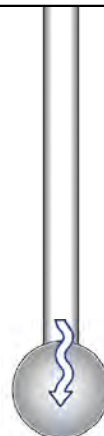


12 to 8

316.0 ft. Access Point Manhole



2-3



2-3

Image Report 4/Page

Pipe Segment Refere... 2-4_2-3	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe		Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-4	Total Length 316	Year Laid	Shape Circular		Location Details	
DS Manhole 2-3	Length surveyed 63	Year Renewed	Height 8	Width 8	Pipe Joint... 3	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-4



Distance: 0.0 ft. Grade: 0
Condition: Water Level
Remarks: N/A



Distance: 9.8 ft. Grade: 1
Condition: Joint Offset Medium
Remarks: N/A



Distance: 9.8 ft. Grade: 2
Condition: Fracture Circumferential
Remarks: N/A

Image Report 4/Page

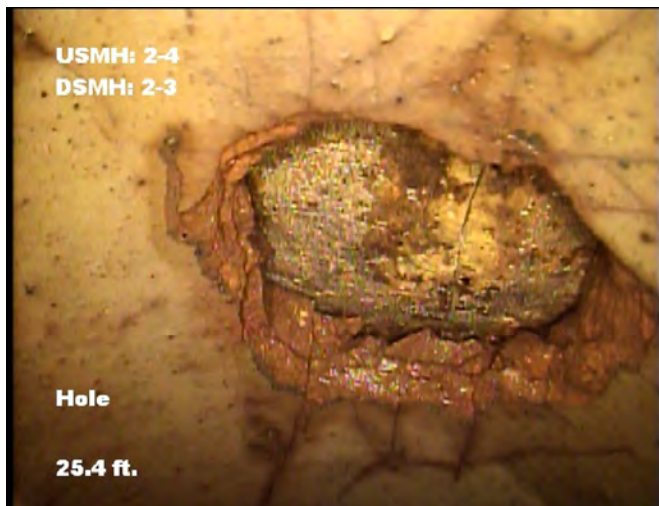
Pipe Segment Refere... 2-4_2-3	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-4	Total Length 316	Year Laid	Shape Circular	Location Details	
DS Manhole 2-3	Length surveyed 63	Year Renewed	Height 8	Width 8	Pipe Joint... 3



Distance: 9.8 ft. Grade: 3
Condition: Fracture Longitudinal
Remarks: N/A



Distance: 10.5 ft. Grade: 2
Condition: Tap Factory Made Defective
Remarks: plugged with roots



Distance: 25.4 ft. Grade: 3
Condition: Hole
Remarks: N/A



Distance: 25.4 ft. Grade: 4
Condition: Fracture Multiple
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-4_2-3	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-4	Total Length 316	Year Laid	Shape Circular	Location Details	
DS Manhole 2-3	Length surveyed 63	Year Renewed	Height 8	Width 8	Pipe Joint... 3



Distance: 26.2 ft. Grade: 4
Condition: Fracture Multiple
Remarks: N/A



Distance: 26.4 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A



Distance: 197.0 ft. Grade: 0
Condition: General Observation
Remarks: End of survey due to tap



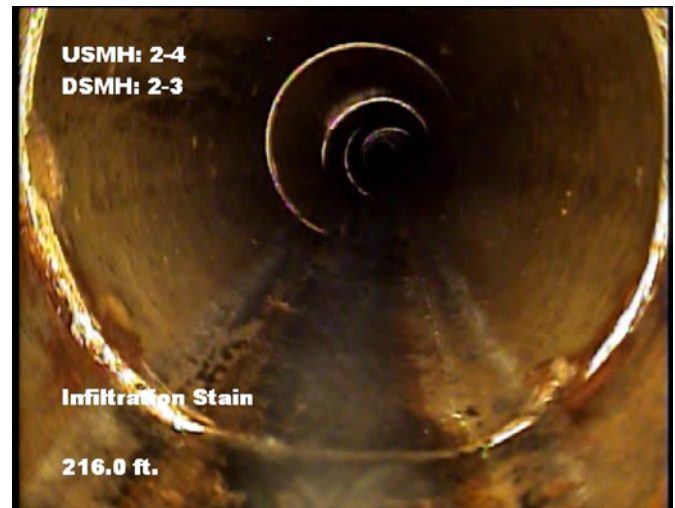
Distance: 197.0 ft. Grade: 0
Condition: Infiltration Stain
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 2-4_2-3	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-4	Total Length 316	Year Laid	Shape Circular	Location Details	
DS Manhole 2-3	Length surveyed 63	Year Renewed	Height 8	Width 8	Pipe Joint... 3



Distance: 198.9 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A



Distance: 216.0 ft. Grade: 0
Condition: Infiltration Stain
Remarks: N/A



Distance: 216.0 ft. Grade: 0
Condition: Infiltration Stain
Remarks: N/A



Distance: 217.6 ft. Grade: 0
Condition: Infiltration Stain
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-4_2-3	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-4	316		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-3	63		8	8	3



Distance: 221.1 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 221.9 ft. Grade: 2
Condition: Crack Longitudinal
Remarks: N/A



Distance: 222.5 ft. Grade: 2
Condition: Tap Break-In Intruding
Remarks: N/A



Distance: 226.6 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A

Image Report 4/Page

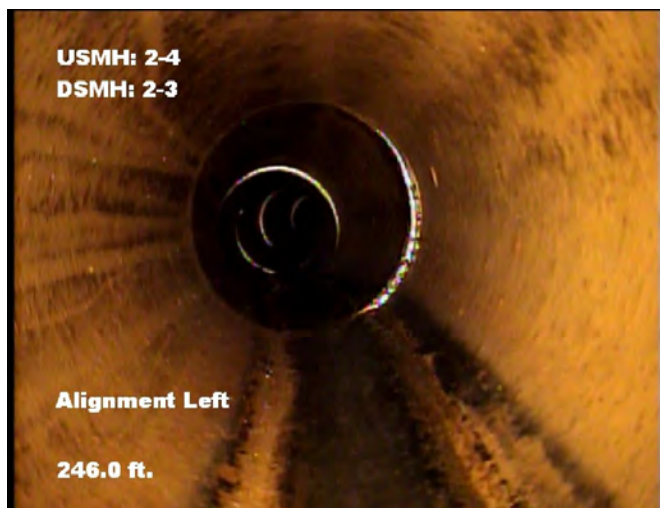
Pipe Segment Refere... 2-4_2-3	City Jamestown	Street Narragansett Ave	Material Vitrified Clay Pipe	Location C... Light High...	Sewer Use Sanitary
Upstream MH 2-4	Total Length 316	Year Laid	Shape Circular	Location Details	
DS Manhole 2-3	Length surveyed 63	Year Renewed	Height 8	Width 8	Pipe Joint... 3



Distance: 228.8 ft. Grade: 2
Condition: Alignment Left
Remarks: N/A



Distance: 241.8 ft. Grade: 2
Condition: Alignment Right
Remarks: N/A



Distance: 246.0 ft. Grade: 1
Condition: Alignment Left
Remarks: N/A



Distance: 269.6 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere...	City	Street	Material	Location C...	Sewer Use
2-4_2-3	Jamestown	Narragansett Ave	Vitrified Clay Pipe	Light High...	Sanitary
Upstream MH	Total Length	Year Laid	Shape	Location Details	
2-4	316		Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
2-3	63		8	8	3



Distance: 297.9 ft. Grade: 0
Condition: Shape or Size Change
Remarks: 12 to 8



Distance: 316.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 2-3